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REPLY TO

ATTENTION OF

DEPARTMENT OF THE ARMY

UNITED STATES ARMY ENGINEER SCHOOL FORT LEONARD WOOD, MISSOURI 65473-6600

OTIC FILE COPY

MEMORANDUM OF AGREEMENT BETWEEN

THE U.S. ARMY ENGINEER SCHOOL AND

THE OFFICE OF THE PROJECT MANAGER MINES, COUNTERMINE AND DEMOLITIONS

SUBJECT: Approval of System MANPRINT Management Plan (SMMP) for the Modernized Demolitions Initiators (MDI) Set

- 1. We jointly approve the enclosed SMMP for MDI.
- 2. Reference, message, HQ TRADOC, ATCD-SP, 251700Z Mar 88, subject: MANPRINT Update Message Number 88-3, System MANPRINT Management Plan Approval Procedures.
- All questions concerning this SMMP should be addressed to ATSE-CDM-C, ATTN: SFC Barry L. Leatherman, Fort Leonard Wood, MO 65473 or AUTOVON 676-7329 or Commercial (314) 563-7329.

FREDERICK J. CHARLES, III

COL, EN

Director of Combat Developments

9.8 AUG 1990

Date

CHARLES DIGNEY

Acting Project Manager,

Mines, C/Mines and Demolitions

1 7 AUS 1990

Date







SYSTEM MANPRINT MANAGEMENT PLAN (SMMP)

FOR THE

MODERNIZED DEMOLITION INITIATORS (MDI) Set

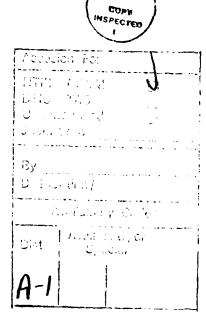
DRAFT July 1990

SFC LEATHERMAN ATSE-CDM-C AV 676-7329/7260

Statement "A" per telecon SFC Barry Leatherman. U.S. Army Engineer School/ ATSE-CDM-C. Fort Leonard Wood, MO 65473-6620.

VHG

12/28/90



DIID

US ARMY ENGINEER SCHOOL
(USAES)
ATSE-CDM-C
FORT LEONARD WOOD, MO 65473-6620

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DRAFT

System MANPRINT Management Plan (SMMP) for the

/ Modernized Demolition Initiator (MDI) Set

INITIAL DRAFT

26 July 1990

1. Executive Summary

- a. The MDI will be the next generation of demolition initiators and detonators that will replace the currently used nonelectric and electric initiators and detonators.
- b. The initial MANPRINT strategy will be based on the predecessor systems (nonelectric and electric initiators/detonators and the new types of technology demonstrated and used in the majority of civilian demolition operations of mining and quarries. The acquisition strategy will be two fold. Part of the MDI System (nonelectric) will be NDI Category A. Whereas an off-the-shelf item or items will be used in the same environment for which the items were designed. The other part of the MDI System (electric) will be NDI Category C (developmental). This approach emphasizes integration of existing componentry and the essential engineering effort to accomplish systems integration. The strategy requires a dedicated R&D effort to integrate existing proven components into a system configuration, to develope or modify software, and to ensure that the total system meets requirements. Because of the nature (dealing with demolitions) and importance of this system, it will be essential that a significant MANPRINT effort be done on both NDI and developmental systems.

c. The key MANPRINT issues are:

- (1) The ability of the target audience to safely employ the MDI during all types of battlefield and climatic conditions.
- (2) The ability of the soldier to perform operational functions to standard.
- (3) The ability of an individual soldier to carry the MDI Set safely.
- (4) The capability of training resources to meet training requirements without growth in resource demand.
- systems. (5) The ability to maintain the components of the new

3

- d. Major tasks currently planned are:
 - (1) Human Factor Engineering Assessment (HFEA).
 - (2) System Safety Assessment (SSA).
 - (3) Health Hazard Assessment (HHA)
 - (4) Cost and Training Effectiveness Analysis (CTEA).
 - (5) System Training Plan (STRAP).
 - (6) Conduct a Task Analysis (TA).
 - (7) Develop a Target Audience Description (TAD).
 - (8) MANPRINT Assessment (MA).
- e. The lead agency in the development of the MDI MANPRINT management Plan will be the DCD, USAES. The key participants and their responsibilities in the MANPRINT effort for the MDI will be:
 - Directorate of Combat Development
 - -Identify and resolve Manpower/Personnel Sasues
 - -Identify and resolve System Safety Issues
 - Directorate of Training and Evaluation Development
 -Identify and resolve Training Issues
 - Human Engineering Laboratory
 - -Identify and resolve Human Engineering Issues
 - Proponency Office
 - -Assist DCD in resolving Manpower/Personnel Issues
 - TRADOC Analysis Command
 - -Assist TED in resolving Training Issues
 - Office of the Surgeon General
 - -Identify and resolve Health Hazard Issues
 - Personnel Integration Command
 - -Assist in resolving Manpower, Personnel, Training Issues
 - OTEA
- -Validate that the MANPRINT Issues have been resolved

2. Description

- a. The Army needs a new generation of initiators and detonators that can meet all of the demolition missions requirements.
- The MDI will consist of all necessary components between the demolition firing point and the main charge(s). All demolition missions that are currently done by soldiers using the standard nonelectric and electric initiating will be done in the future with MDI. These demolitions will not be limited to environmental conditions or geographical locations. presently used nonelectric and electric initiators are pressure sensitive (cannot be used underwater or underground), time consuming to employ, requires a lot of handling by the soldier, and overall are not safe and cost effective to use. The presently used system will be replaced by systems that are less pressure sensitive so that they can be used safely underground or underwater. In keeping with the safety aspect of the user, the new systems will require less handling by the soldier, i.e., no crimping of the blasting caps. The elimination of tying knots to connect branch lines will also reduce soldier handling and reduce the time spent by the soldier on the target site. Because the predecessor systems are so outdated, alternative design versions compared to the predecessor systems are envisioned. This includes the use of laser/fiber optic systems to replace the present electric system.
- (2) The MDI should meet the following performance characteristics:
- (a) Capable of detonating current demolition and demolition devices.
 - (b) Capable of be command detonated.
 - (c) Capable of being used underground and underwater.
- (d) The system should be capable of being checked for proper hookup.
- (e) Capable of simultaneous or staged detonation of charges.
- (f) The transmissions/firing lines should be capable of being cut and spliced.
- (g) Capable of being transported by all means, to include being manportable, with the explosive it will initiate.

- b. Acquisition Strategy. MDI will be procured under the Army Streamlined Acquisition Process. Milestone Decision Reviews will be carried out through the IPR process. The type of program envisioned is two-fold. First the nonelectric portion of the MDI Set will be accomplished using the NDI approach. The electric portion of the MDI Set will be a developmental NDI program. FUE for the nonelectric is anticipated FY92 with the electric replacement FUE by the end of FY93.
- c. Agencies. The lead agency in the development of the MDI SMMP is the Directorate of Combat Developments, USAES. Key participants and their responsibilities in the MANPRINT effort for MDI are:

TRADOC

U.S. Army Engineer School

-Directorate of Combat Development

-Directorate of Training Development

Integrating Centers

-USALOGC, Logistics Integrating Center

-USACAC, Combat Integrating Center

-USAPIC, Personnel Integration

HQ TRADOC

- DCSCD

- DCST

AMC

LABCOM

-Human Engineering Lab

HEL

-Human Factors Engr

ARDEC

-Materiel Developer

-System Safety

-Program Manger

Testing Community

-OTEA, Testing Agency

Other

USAJFKSWCS

Army Surgeon General, Health Hazard Assessment

Safety Center

DCSPER

DCSOPS

Army Research Institute

Operational Test and Evaluation Agency

d. Guidance.

- (1) "A Priori" Decisions. NONE.
- (2) General DA and TRADOC Guidance. TRADOC has stated that the M122 will not be part of the MDI.
- (3) ASSUMPTIONS. The following assumptions have been made:
- (a) The system will not cause a net increase in manpower requirements.
- (b) No change in the target audience quality or quantity.
- (c) No new MOSs or ASIs will be required to operate or maintain the system.
- (d) The system will not cause an increase in training requirements, to include concurrent training with the predecessor system.

3. MANPRINT Strategy

a. Objectives.

- (1) General. The goal of the MANPRINT program is to affect system design early in the development process in order to: identify and eliminate or control health and safety hazards; ensure that human factors are given proper consideration; minimize the impact of system fielding by elimination of any need for a new MOS, additional training requirements, or increased quality levels of operators/maintainers and insure MANPRINT issues are incorporated into program documents.
 - (2) Manpower.
 - (a) Live within current TOE/TDA position authorizations.
- (b) Minimize the MDI fielding impact on maintainers and others.
 - (3) Personnel.
- (a) Stay within current aptitude and skill level requirements.
 - (b) Avoid the creation of a new MOS or ASI.
- (c) Ensure high-driver tasks of predecessor systems are identified and eliminated or simplified.

- (4) Training.
- (a) Train all critical tasks at TRADOC schools.
- (b) Ensure training requirements do not increase.
- (c) Sustainment unit training should not be increased.
- (d) Ensure training aids/devices are available and support training requirements.
 - (e) Ensure a System Training Plan (STRAP) is prepared.
 - (5) Human Factors Engineering.
- (a) MDI will be designed in such a way as to facilitate task completion by the Target Audience, ensuring minimum task difficulty and minimizing the potential for human error. Human performance standards will be included in testing and training.
- (b) Avoid increasing physical demands from what is presently required by soldiers to accomplish a like demolitions task, in the Target Audience Group.
- (c) Ensure that the system can be operated and maintained by the 5th to 95th percentile soldier.
- (d) Ensure the system is operable by soldiers while wearing the full range of individual clothing and equipment including NBC protective clothing (MOPP 4) and Arctic Gear.
- (e) MDI shall comply with the appropriate human factors engineering criteria from MIL STD 1472D and design guidance provided by experienced HFE practitioners.
 - (6) SYSTEM SAFETY.
- (a) Ensure potential safety hazards resulting from equipment design and its use in the operational environment are identified and eliminated or controlled.
- (b) Consider maintenance and support personnel as well as crew in safety analyses.
- (c) Ensure that the system incorporates safety features to protect the user, other personnel in close proximity, and facilities during operation and storage.
- (d) Lessons learned from the predecessor systems will be considered in the MDI development.

- (e) Reduction or elimination of susceptibility by MDI from RF interference, induced current, and EMP.
- (f) Ensuring that the MDI is engineered so that it can be carried in the same vehicles as the explosive devices it will be used with.
 - (7) HEALTH HAZARDS.
- (a) Minimize health hazards through design and technology upgrade.
- (b) Ensure health hazards are identified prior to Development Proveout and are eliminated or controlled.
- (c) Ensure emerging technologies do not add new health hazards.
 - (8) Other.
- (a) Other objectives include avoiding the repeat of any MANPRINT shortcomings that exist with the systems MDI will replace.
- (b) Ensuring that mature technology is used in the design of the MDI system.

b. Data Sources/Availability

- (1) Predecessor System. The key MANPRINT issues for MDI will be similar to those associated with the predecessor systems it will replace. The predecessor systems are the complete set of items in both nonelectric and electric firing/initiation systems. This includes for the nonelectric system the fuse lighters, time fuse, detcord, and nonelectric blasting caps. For the electrical system the predecessor system is the electric firing devices, firing wire with reel machine, test set, and the electric blasting cap.
 - (2) Early Availability of Data/Risk Analysis.
- (a) Manpower, personnel, and training constraints can be identified.
 - (b) Associated performance issues can be identified.
- (c) Lesson learned in the area of system safety, health hazards and human factors on the predecessor will be identified.
- (d) The key to the MANPRINT effort will be to schedule necessary analyses, simulations and tests early to generate data that may be required but is not available from the predecessor

system.

- (e) Include answers to MANPRINT concerns and questions in technology demonstrations.
- (f) Greater emphasis will be placed on analyses, simulations and testing to generate data on soldier functions, tasks, and performance with new technologies.
 - (3) The planned level of MANPRINT analyses effort.
- (a) In pre-Milestone I/II, MANPRINT actions include the development of information to support design decisions in the developmental part of MDI and to analyze the MANPRINT issues in the NDI portion of the MDI. MANPRINT actions include:
 - Develop and staff the MDI SMMP.
 - Formulation of the MANPRINT Joint Working Group
 - Development and refinement of MANPRINT issues/questions and obtain approval.
 - Initiation of research actions required to develop answers to MANPRINT questions.
 - Include a MANPRINT goal objective and constraint in the O&O, ROC, and TEMP.
 - Develop a System Training Plan.
 - Target Audience to industry.
- (b) After Milestone I/II, MANPRINT actions include the development of information and prototypes to support the acquisition decision. These MANPRINT actions include:
 - Ensuring MANPRINT analyses listed in Tab C are accomplished.
 - Develop a System Safety Assessment.
 - Reviewing prototype design to assess adherence to MANPRINT constraints and document results.
 - Ensuring all MANPRINT issues have been resolved prior to production.
 - Update SMMP as questions are answered.
 - Develop a MANPRINT Assessment.
 - Crosswalk MANPRINT issues between SMMP, O&O, ROC, TEMP, IEP, and RFP as changes occur.
 - MANPRINT testing.
 - Review MANPRINT issues in the RFP.
 - (c) After Milestone III, MANPRINT efforts will focus on:
 - Ensure MANPRINT Concerns are answered
 - Ensure that a suitable post fielding test validates the MANPRINT goal.
 - Develop lessons learned.

4. MANPRINT CONCERNS.

a. MANPOWER

- (1) That maintenance manpower of the MDI will be kept to a minimum by not requiring more checks and services than the predecessor systems.
- (2) That the MDI set may require more than a one-man carry.

b. PERSONNEL

- (1) The soldier using the current demolition equipment systems may not be capable of performing similar tasks with the MDI.
- (2) That the MDI system may require a new MOS or additional skill identifier before being fielded.

c. TRAINING

- (1) Once fielded the length of the MDI Program of Instruction (POI) should be the same as the current system being taught if not shortened. New Equipment Training will be developed IAW AR 350-35 Army Modernization Training.
- (2) That sustainment training requirements may be increased.
- (3) That the new system should not impact on current doctrine and tactics. The MDI system should improve the speed and safety of initiating explosives by the using soldier.
- (4) The system's inert training devices, training literature and publications should be available prior to soldier/system interface which is as early as initial testing which is prior to FUE.

d. HUMAN FACTORS ENGINEERING

- (1) MDT will be designed in such a way as to facilitate task completion by the Target Audience, ensuring minimum task difficulty and minimizing the potential for human error. Human performance standards will be included in testing and training documents.
- (2) The system should not require more than one man to transport the initiator/detonators for a demolition mission of average size (two initiators, 12 detonators, and 300 meters of transmission wire).

e. SYSTEM SAFETY

- (1) That the predecessor systems safety hazards such as electromagnetic radiation susceptibility (RF, EMP, ESD, etc.) pressure sensitive, soldier/cap crimping interface should be considered and designed out an 'eliminated or controlled.
- (2) That new technology design features may not be analyzed for potential injury causing defects.
- (3) That hardware-embedded safe separation delay timers should not be used.
- (4) The new system may not be tested for safe operation by the target audience under all types of conditions. This includes Hot, Basic, and Cold climates and while operating in a NBC environment.

f. HEALTH HAZARD

- (1) That health hazards problems from the current systems should be eliminated or controlled whether they be real or potential problems.
- (2) That residual hazards or conditions be reduced or minimized.
- (3) That employment of the MDI while wearing cold weather equipment, NBC gear, or diving gear should not cause undue stress on the operator while performing operator tasks.

5. TABS.

- a. TAB A. Data Sources
- b. TAB B. MANPRINT Milestone Schedule
- c. TAB C. Task De criptions
- d. TAB D. Questions to be Resolved
- e. TAB E. Coordination
- f. TAB F. Audit Trail
- g. TAB G. Target Audience Description

TAB A

DATA SOURCES

1. The following are potential data sources on current systems that will be reviewed in each of the following areas; Manpower, Personnel, Training, Human Factors Engineering, System Safety, and Health Hazard:

RATIONALE

SS Lessons Learned

HH Lessons Learned

Critical MANPRINT Issues

DATA SOURCE

Contractor Data

IEP/IER

Safety Expertise in AMC/TRADOC/Contractor

O&O Plan	Concept/System Criteria
ICTP	Training Concept
TEMP	Critical MANPRINT Issues
ARTEP	Performance Data
SQT	Performance Data
AR 611-201	Target Audience
DOES	Performance Issues, Training Task
Mishap Data Base	SS Lessons Learned

- 2. Data generated on new technologies and the new system will become primary data as it is developed.
- 3. Data generated from future events (listed below) will become primary data as it is developed and the data will be included in the appropriate MANPRINT area of the SMMP during the updating of the SMMP.

HFEA	Critical HFE, HH, and SS Problems
HHAR	HH Lessons Learned
BOIP/QQPRI	Manpower and Personnel Data

TAB B
MANPRINT MILESTONE SCHEDULE

ACTION	SCHEDULED COMPLETION DATE
TAD	FY 90
SMMP	FY 90
O&O PLAN	FY 90
TEMP	FY 90
STRAP	FY 90
SAR	FY 91
CTEA	FY 91
EUT&E	FY 91
COEA	FY 91
QQPRI/BOIP	FY 91
нна	FY 91
CTA	FY 91
HFEA	FY 91
ROC	FY 92
IPR MILESTONE I/II, (UPDATE SM	MP) FY 92
NETP	FY 92
IOT&E	FY 92
IPR MILESTONE III, (UPDATE SMM	P) FY 93
FOT&E	FY 93
FUE	FY 93
IOC	FY 94
MILESTONE V, (UPDATE SMMP)	FY 94
SORR	FY 94

TAB C

TASK DESCRIPTIONS

1. Task Description: Develop and update the SMMP.

Rationale: The SMMP is the mechanism used to document,

track, and integrate the overall MANPRINT strategy for MDI.

Resources: 40 Mandays.

Time to Complete: The effort is ongoing.

Responsible Agency: MANPRINT Joint Working Group/USAES,

DCD.

Support Agencies: USAPIC, ARI, LOGC, CAC, MANPRINT

Committee.

Dependencies: None.

Feeds: All MANPRINT activities, the O&O plan, and the ROC.

Answers TAB D Questions: None.

2. <u>Task Description</u>: Human Factor Engineering Assessment.

Rationale: Identify and define soldier limitations.

Resources: 30 Mandays

Time to Complete: 60 Mandays

Responsible Agency: HEL

Support Agency: USAES, ARDEC

Dependencies:

Feeds: ROC

Answers TAB D Questions: d.(1), d.(2), d.(3).

3. Task Description: System Safety Assessment.

Rationale: Identify system safety hazards.

Resources: TBD

Time to Complete: TBD

Responsible Agency: ARDEC, USAES Safety.

Support Agencies: ARDEC.

Dependencies: None.

Feeds: TEMP, HHAR, ROC, Manpower/Personnel Assessment.

Answers TAB D Questions: e.(1), e.(2), e.(3), e.(4).

4. Task Description: Health Hazard Assessment

Rationale: Required by AR 40-10

Resources: TBD

Time to Complete: 2 weeks.

Responsible Agency: Surgeon General

Support Agency: ARDEC

Dependencies:

Feeds: HFEA, TEMP, SAR, AND ROC.

Answers TAB D Questions: f.

Task Description: Critical Task Analysis 5. Rationale: Defines critical task if any.

Resources: 20 Mandays

Time to Complete: 3 Mandays before UT and 3 month after UT.

Responsible Agency: ARDEC Support Agency: USAES-DOTD.

Dependencies:

Feeds: LSA, STRAP, CFP, BOIP/QQPRI. Answers TAB D Questions: a.(2), b

Task Description: Test and Evaluation Master Plan. 6. Rationale: Identify and document test requirements.

Resources: TBD

Time to Complete: 60 Mandays Responsible Agency: ARDEC.

Support Agency: USAES-DCD/DOTD, OTEA, LEA.

Dependencies: O&O plan, ROC.

Feeds: TSP, IER/IAR.

Answers TAB D Questions: c.(1).

Task Description: Systems Training Plan (STRAP). 7. Rationale: Identify individual and collective training requirements.

Resources: 30 Mandays

Time to Complete: TBD

Responsible Agency: USAES, DOTD.

Support Agency: ARDEC.

Dependencies: CFP, TOD, TOA, BTA.

Feeds: LSA, MFP, QQPRI.

Answers TAB D Questions: c.(4).

Task Description: New Equipment Training Plan. 8.

Rationale: Produce the system training plan.

Resources: 30 Mandays

Time to Complete: TBD

Responsible Agency: AMCCOM.

Support Agency: USAES DOTD.

Dependencies: LSA, STRAP, BOIP, QQPRI. Feeds: ILSP, STRAP.

Answers TAB D Questions: c.(1), c.(2), c.(3).

9. Task Description: Logistics Support Analysis.

Rationale: Identify maintenance/supply manpower.

Resources: TBD

Time to Complete: TBD

Responsible Agency: ARDEC, CONTRACTOR

Support Agency:
Dependencies:
Feeds: RFP

Answers TAB D Questions: b.

10. Task Description: MANPRINT Assessment

Rationale: Identify performance problems.

Resources: TBD

Time to Complete: TBD

Responsible Agency: USAES, DCD & DOTD

Support Agency: USAPIC

<u>Dependencies:</u>
<u>Feeds:</u> O&O, ROC

Answers TAB D Questions: g.(2).

11. Task Description: Conduct a Cost Training Effectiveness

Analysis.

Rationale: Identify performance problems.

Resources: TBD

Time to Complete: TBD

Responsible Agency: USAES/DOTD
Support Agency: ARDEC, CONTRACTOR

Dependencies:

Feeds:

Answers TAB D Questions: g.(1).

TAB D

QUESTIONS TO BE RESOLVED

a. Manpower.

- (1) Will the weight of MDI be such that more than one soldier is necessary to carry the system?
- (2) Will the emerging technology be the cause for a new MOS and changed MTOEs?
- b. Personnel. Will system development result in the creation of different skill levels accomplishing current skill level like tasks?

c. Training.

- (1) Will the MDI require additional training when in institutional training or sustainment training?
- (2) Will the training device be capable of simulating the actual system?
- (3) Will the manuals be complete, accurate, and easily understood by the Target Audience?
- (4) Will the MDI require additional sustainment training for the individual, squad, or platoon personnel?
- (5) Will unit training, and system support material to include training device(s) training literature and publications be developed in time for concurrent testing and fielding?

d. Human Factors.

- (1) Can the MDI be operated and maintained by the 5th to 95th percentile soldier?
- (2) Does the system have a low human error likelihood of a misfire when put into operation by the operator?
 - (3) Is the MDI manportable by one man?
- (4) How much time is required to prepare and emplace the MDI for use with each type demolition?
- (5) Can the MDI be installed and operated by a soldier who is environmentally clothed (i.e., NBC, cold weather, etc.)?
- (6) Is the carrying container compatible with the soldier's other clothing and equipment?

- (7) What is the carry configuration of the container?
- e. System Safety.
- (1) Will safety hazards be identified and eliminated or controlled prior to system production/procurement?
- (2) Will the soldier be able to safely arm the device during NBC operations and inclement weather?
 - (3) Will the MDI have NBC contamination survivability?
- (4) Will the MDI eliminate the special handling requirements presently required by blasting caps?
- f. Health Hazards. Will health hazards be identified and eliminated or controlled during system development?
 - q. Others.
- (1) What technologies are mature enough to incorporate into the fielding of the MDI?
- (2) Can milestones be shortened for an earlier fielding date without a negative MANPRINT impact?

TAB E COORDINATION

DCD SFC LEATHERMAN	ATSE-CDM-C	FT LEONARD WOOD, MO AV 676-7329
DCD CHARLES MANNING	ATSE-CDM	FT LEONARD WOOD, MO AV 676-7323
DOTD MIKE WILLIAMS	ATSE-TDN-E	FT LEONARD WOOD, MO AV 676-7627
ARDEC RICK WAGNER	AMCPM-MCD-D	PICATINNEY ARSENAL AV 880-7838
TRADOC LTC LEADBETTER	ATCD-MW	FT MONROE, VA AV 680-2365/5000
LOGC CHARLIE MOORE	ATCL-MR	FT LEE, VA AV 687-4136
USAIS ARNOLD SMITH	ATSH-CD-MLS-E	FT BENNING, GA AV 835-3181/1910
USAPIC JOE SAWYER	ATNC-NMM-B	ALEXANDRIA, VA AV 221-2080
USAS DENNIS LIPSCOMB	ATSC-CD-OPD	FT KNOX, KY AV 464-8132/1909
USAOTEA MAJ MALLY	CSTE-CS	ALEXANDRIA, VA AV 289-0476
USAJFKSWCS MSG KUEBLER	ATSU-CD-ML	FT BRAGG AV 239-1816
USACS TBD	ATZN-CM-CS	FT MCCLELLAN, AL
USAMPS TBD	ATZN-MP-CCC	FT MCCLELLAN, AL
OMMC&S TBD	ATSK-CM	REDSTONE ARSENAL, AL
USAQMS TBD	ATSM-CDM	FT LEE, VA AV 687-
USATALS TBD	ATSP-CDM	FT EUSTIS, VA
USAFAS TBD	ATSF-CML	FT SILL, OK 20 AV 639-

USAADAS TBD	ATSA-CDM	FT BLISS, TX AV 978-
USACC&S TBD	ATSC-DCD	FT MONMOUTH, NJ
HQDA LTC BLACKWOOD	DAPC-ZAM	WASHINGTON, DC AV 225-
DCSPER		
ASC TBD	CSSC-SE	FT RUCKER, AL AV 558-
HEL MR GOLDEN	SLCHE-FS-M	ABERDEEN PROVING GROUND, MD AV 298-5830
BRDEC TBD	STREB-TIS	FT BELVOIR, VA AV 354-
HQDA, ODCSPER TBD	DAPE-MBI	WASHINGTON, DC AV 227-
ARDEC JACK CARLOCK	SLCHE-AR	Picatinny, NJ AV 880-3227
USALC TBD	AMSLC-TP-AL	ADELPHI, MD AV 290-
WES MR CARLTON		VICKSBURG, MI (601) 634-3812

TAB F AUDIT TRAIL

- 1. O&O Plan was approved by General Schroeder, USAES's Commandant, on 20 March 1990 and sent to HQ TRADOC.
- 2. 1ST MJWG was held on 12 June with only a representative from USAPIC attending.
- 3. Comments received from coordination/staffing are listed below.

ACTIVITY	SUBMITTED	ACCEPTED	CONCURRED
ARDEC	15	15	x
USAIC	58	58	X
USAPIC	22	22	X
USAMMCS	2	2	X
USMC	•	~	X
USABRDEC			X
USAMSAA			X
			X
USAMPS			X
AIRDEF			X
QMS			X
ARMOR SCH			X
AVAITION SCH			
NAVEL EOD			X
TEXCOM Airborne/S	pecial Ops Test	: Board	X
USANCA			X
USATS			X
USAOMMCS			X
USAOTEA	31	30	X

TAB G TARGET AUDIENCE DESCRIPTION

- 1. The Target Audience Description (TAD) delineates the number, characteristics, and potential performance of the soldiers who will operate the MDI. The TAD also describes the range of individual qualifications of all related physical, mental physiological, demographical, and motivational dimensions. A basic assumption of these TADs is that the soldier of FY00 will have many of the same characteristics as the current soldier.
- 2. The following CMFs have MOSs that are identified as being appropriate for the MDI: CMF; 12, 51, 11, 19, 13, 18, and CMF 55. Additional MOSs identified in QQPRI will appear in updates of this SMMP.
- 3. As new information becomes available updates to the TADs will occur. The USA Personnel Integration Command (USAPIC) will be provided updates. The Contractor may extract current information for the TAD from the following sources:

AR 611-201 Enlisted Career Management Fields and Military Occupational Specialties

MIL STD 1472C Human Engineering Design Criteria
For Military Systems, Equipment and
Facilities

FC 21-451 I Am The American Soldier

- 4. High-driver task TBD.
- 5. Target Audience Description.
- 6. Related demolition tasks.
- 7. CMFs with possible related MDI demolition missions/task:
 Note: The TADs received from worldwide staffing will become enclosures to TAB G.
 - a. Engineer, CMF 12 and 51.
 - b. Infantry, CMF 11.
 - c. Armor and Armored Cavalry, CMF 19.
 - d. Field Artillery, CMF 13.
 - e. Special Forces, CMF 18.
 - f. Ordnance and Explosive Ordnance Disposal, CMF 55.
- 8. Following TADs were received from the staffing of the MDI SMMP and are attached at Appendix C: 12B, 19D, 55D

Appendix A

Acronyms

AEHA Army Environmental Hygiene Agency AFOT Armed Farces Qualification Test AHS Academy Health Science **AMC** Army Materiel Command AMCCOM US Army Armament, Munitions and Chemical Command AMEDD Army Medical Department ARPRINT Army Program For Individual Training ARTEP Army Training and Evaluation Program Army System Acquisition Review Council **ASARC** Armed Services Vocational Aptitude Battery **ASVAB** Army Training Requirement Resources System **ATRRS** AVSCOM USA Aviation Systems Command Basis of Issue Plan BOIP Combined Arms Center CAC Combat Developer CD CECOM US Army Communications-Electronics Command CMF Career Management Field COEA Cost and Operational Effectiveness Analysis Cost and Training Effectiveness Analysis CTEA DA Department of the Army Deputy Chief of Staff, Operations and DCSOPS Plans Deputy Chief of Staff for Personnel DCSPER DOES Directorate of Evaluation and Standardization DOTD Directorate of Training Development **EARA** Equipment Authorizations Review Activity ECA Early Comparability Analysis **FSPRD** Force Structure Personnel Requirement Directorate, USAPIC **HARDMAN** Hardware vs. Manpower Comparability Methodology **HFEA** Human Factors Engineering Analysis HHAR Health Hazard Assessment Report ICTP Individual and Collective Training Plan IEP Independent Evaluation Plan Independent Evaluation Report IER LABCOM US Army Laboratory Command LCSMM Life Cycle System Management Model LOGC US Army Logistics Center LSA Logistic Support Analysis Manpower and Personnel Integration MANPRINT MAP Materiel Acquisition Process **MEPSCAT** Military Entrance Physical Strength Capacity Test US Army Missile Command MICOM MID Manning Integration Directorate of USAPIC

MANPRINT Joint Working Group

Manpower Long Range Planning System

MJWG

MLRPS

MOS Military Occupational Specialty MFT Manpower, Personnel, and Training MEDC Medical Research and Development Center MRSA Materiel Readiness Support Activity NBC Nuclear, Biological, and Chemical Nondevelopmental Item NDI NETP New Equipment Training Plan O&O Plan Operational and Organizational Plan Office of Personnel Management OPM Office of the Surgeon General OSG Operational Testing TO OTEA Operational Test and Evaluation Agency PERT Program Evaluation and Review Technique PIP Product Improvement Program PM Program/Project/Product Manager PMAD Personnel Management Authorization Document Program of Instruction 109 Personnel Proponency Coordination Center **PPCC** QQPRI Qualitative and Quantitative Personnel Information Research and Development R&D RFP Request for Proposal SAR Selected Acquisition Report SMMP System MANPRINT Management Plan SOW Statement of Work Skill Qualification Test SQT TACOM US Army Tank-Automotive Command TAD Target Audience Description TD Training Developer Training Effectiveness Analysis TEA TECOM US Army Test and Evaluation Command TEMP Test and Evaluation Master Plan Technical Information Liaison Officer TILO TOA Trade-Off Analysis TOE Table of Organization and Equipment TR Test Report TRADOC US Army Training and Doctrine Command

TSM TRADOC System Manager

Technical Test

USAPIC US Army Personnel Information Center

USAES US Army Engineer School

Appendix B

References

AR 40-10	Health Hazards Assessment
AR 70-1	System Acquisition Policy and Procedures
AR 70-10	Test and Evaluation During Development and Acquisition of Materiel
AR 70-15	Product Improvement of Materiel
AR 71-2	Basis of Issue Plans (BOIPs) and Qualitative and Quantitative Personnel Requirements Information (QQPRI)
AR 71-9	Materiel Objectives and Requirements
AR 385-16	System Safety Engineering and Management
AR 602-1	Human Factors Engineering Program
AR 602-2	Manpower and Personnel Integration (MANPRINT)
AR 700-127	Integrated Logistic Support (ILS)
AR 1000-1	Basic Policies for Systems Acquisition
DA Pam 11-25	Life Cycle System Management Model for Army Systems
TRADOC Reg 71-	12 Total System Management - TRADOC System Managers
TRADOC Reg 11-	7 Operational Concepts and Army Doctrine
AMC/TRADOC PAM	70-2 Materiel Acquisition Handbook
	Early Comparability Analysis Handbook
	HARDMAN Comparability Analysis Methodology Guide



APPENDIX C

TARGET AUDIENCE DESCRIPTION/BASELINE MOS DESCRIPTION MOS 12B COMBAT ENGINEER CMF 12

A. CURRENT INVENTORY AND PROJECTED FORCE STRUCTURE.

		CA	INVENTORY	CY+1	CA+5	CA+3
GRADE E3	SL 1	AUTH 4117	STRENGTH%	AUTH 4498	AUTH 4478	AUTH 4478
E4 E5 E6	1 2 3	3824 2194 1700	95 9 97.6 101.8	3775 2191 1708	3805 2190 1708	3809 2190 1708

B. STANDARDS OF GRADE AUTHORIZATION.

- C. MOS/CIVILIAN DESIGNATION AND DESCRIPTION.
 - 1. CAREER MANAGEMENT FIELD (CMF):12 COMBAT ENGINEER
 - 2. OPERATOR MOS: 12B COMBAT ENGINEER
 - 3. ADDITIONAL SKILL IDENTIFIERS: P5 MASTER FITNESS TRAINER 4A RECLASSIFICATION TRAINING
 - 4. SECURITY CLEARANCE: NONE
- 5. JOB DESCRIPTION: Major duties at the different skill levels are:

- a. MOSC 12B10. Assists combat engineers by performing combat construction, combat demolitions, and related duties.
- MOSC 12B20. Performs as team leader and assistant squad leader in combat construction, demolition, and duties.
- c. MOSC 12B30. Serves as squad leader; as section leader; as reconnaissance sergeant; as construction foreman; as advisor to supported units, allied forces, ARNG and USAR; and as instructor.
- d. MOSC 12B40. Serves as platoon sergeant; as operations sergeant; as construction inspector; as advisor to supported units, allied forces ARNG and USAR; and as instructor.

RELATED CIVILIAN OCCUPATIONS:

- a. DOT classification.
- Rigger--869.683-014
- Dump truck driver--902.683-010 (2)
- (3) Light truck driver--906.683-022
- Blaster--859.261-010 (4)
- (5) Construction worker--869.687-026
- Rafter--455.664-010 (6)
- Drafter--005.281-010
- (7) (8) Tree cutter--454.684-026
- Construction inspector--182.267-010 (9)
- b. Federal civil service classification.
- (1) Laboring--WG 3502.
- Pier facilities working--WG 6702 (2)
- Truck driving-- WG 5708 (3)
- Construction supervision -- WG 4702. (4)
- Engineering aid--GS 802. (5)
- (6)Explosives detonating--WG 5504.

DEMOGRAPHIC INFORMATION: D.

1. CIVILIAN EDUCATION:

CY 87	E1-E-4		E5		E6	
	#	8	#	8	#	*
HSG NON HSG	9104 299	96.82 3.18	2235 13	99.43 .57	1749 2	99.89

- 2. NUMBER AND PERCENTAGE OF SOLDIERS WITH ENGLISH AS A SECOND LANGUAGE: NOT AVAILABLE AT THIS TIME
 - 3. GENDER MIX: NO FEMALE SOLDIERS.

- E. ANTHROPOMETRIC DATA (5TH TO 95TH PERCENTILE MALE)
 - 1. SHOULDER HEIGHT, STANDING: 133.6 TO 154.2 cm
 - 2. SHOULDER HEIGHT, SITTING: 54.2 TO 65.4 cm
 - 3. SHOULDER HEIGHT, KNEELING: 86.1 TO 95.6 cm
 - 4. FUNCTIONAL ARM REACH: 72.6 TO 90.9 cm
 - 5. OTHER:

F. PHYSICAL QUALIFICATIONS

- 1. GENERAL PHYSICAL DATA: Frequently lifts 100 pounds and carries 25 feet.
 - 2. PULHES PROFILE: 111121 P Physical Capacity or Stamina

U - Upper Extremities

L - Lower Extremities

H - Hearing and Ear

E - Eyes

S - Psychiatric

- MEPSCAT RATING (Physical Demands Rating): Very Heavy.
- 4. VISION:
 - a. COLOR: Must possess normal color vision.
 - b. ACUITY:
- 5. DEXTERITY: Must possess finger dexterity in both hands.
- G. APTITUDE DESCRIPTION OF THE TARGET POPULATION:
 - 1. AFOT MENTAL CATEGORY DISTRIBUTION:

	E1-E4	E 5	E6
I	236	68	68
II	2369	541	434
IIIA	2101	461	364
IIIB	3400	777	638
IV	954	385	254

2. QUALITY DISTRIBUTION-USAREC ANNUAL PRODUCTION & GOALS:

	PRODUCTION				GOAL			
	CY-3		CY-2		CY-1	CY	CY+1	
	#	8	#	8	# %	# %	# %	
I-IIIA					54.4	52.0	52.0	
IIIB					31.0	38.0	38.0	
IV					15.0	10.0	10.0	

- 3. PREREQUISITE APTITUDE AREA SCORE: Combat Operations
 - a. COMPONENTS OF APTITUDE AREA INCLUDE:

ARITHMETIC REASONING (AR)
Auto and Shop (AS)
Coding Speed (CS)
Mechanical Comprehension (MC)

- b. APTITUDE AREA ENTRY LEVEL SCORE: 90
- 4. APTITUDE AREA SCORE DISTRIBUTION: CO (as of Jan 89)

	E1-E4	E5	Е6
80- 84	17/ .17	11/ .46	12/ .76
85- 89	123/ 1.24	158/ 7.11	32/ 2.01
90- 94	1453/ 14.60	252/11.39	141/ 8.87
95- 90	1348/ 13.54	254/11.47	179/11.26
100-104	1398/ 13.54	287/12.96	184/11.58
105-109	1348/ 13.54	297/13.42	221/13.91
110-114	1119/ 11.24	253/11.43	197/12.40
115-119	1224/ 12.04	243/10.97	191/12.02
120-124	904/ 9.08	224/10.13	142/ 8.94
125-129	600/ 6.03	117/ 5.31	135/ 8.50
130 >	407/ 4.09	109/ 4.93	135/ 8.50

5. TARGET READING GRADE LEVEL:

	KGL		
	#	8	
SL-1 -10.1	2339	28.81	
SL-2 -10.4	703	31.84	
SL-3 -10.7	536	30.39	
S1-4 -11.0	278	30.12	
TOTAL ALL SKILL LEVEL - 10.3			

TARGET AUDIENCE DESCRIPTION/BASELINE MOS DESCRIPTION

MOS 12F COMBAT ENGINEER CMF 12

A. CURRENT INVENTORY AND PROJECTED FORCE STRUCTURE (Current data source DAPC45 dtd Dec 89, projected data source PMAD dtd Feb 90).

GRADE	SL	CY AUTH	INVENTORY STRENGTH%	CY+1 AUTH	CY+2 AUTH	CY+3 AUTH
E3	3L 1	99	354.5	99	99	101
E3 E4	1	448	43.5	492	503	526
E5	2	480	69.0	579	592	617
E6	3	227	97.0	232	232	244

B. STANDARDS OF GRADE AUTHORIZATION (DATA SOURCE AR 611-201).

DUTY POSITION CEV Loader CEV Driver AVLB Operator ACE Operator	CODE 12F10 12F10 12F10 12F10	RANK PFC SP4 SP4 SP4	NOTES In engineer (CORPS). This standard will be applied to cumulative ACE operator positions at company level (i.e. to the total number of ACE positions in the company)
ACE Operator ACE Operator	12F20 12F10	SGT SP4	In units other than those described in the notes above.
ACE Operator CEV Gunner AVLB Commander CEV Commander Section Sergeant Platoon Sergeant Section Sergeant	12F20 12F20 12F20 12F30 12F30 12F30 12F40	SGT SGT SSG SSG PSG SFC	In AVLB section. In mobility/counter mobility/countermobility section. In mobility/counter mobility section of engineer battalion for supervision of team comprised of 4 or more CEVs.

C. MOS/CIVILIAN DESIGNATION AND DESCRIPTION:

- 1. CAREER MANAGEMENT FIELD (CMF): 12 COMBAT ENGINEER
- 2. OPERATOR MOS: 12F TRACK VEH CREWMEN

- 3. ADDITIONAL SKILL IDENTIFIER: P5 MASTER FITNESS TRAINER
- 4. SECURITY CLEARANCE:

NONE

- 5. JOB DESCRIPTION: Major duties at the different skill levels are:
- a. MOSC 12F10. Operates or serves as loader on a CEV, or operates an AVLB or and ACE while participating in combat mobility, countermobility and survivability operations.
- b. MOSC 12F20. Fires CEV demolition gun and commands AVLB crew.
 - c. MOSC 12F30. Supervises CEV crew and AVLB section.
- d. MOSC 12F40. Supervises AVLB platoon and mobility/coutermobility section or team.
 - 6. RELATED CIVILIAN OCCUPATIONS:
 - a. DOT classification.
 - (1) Bulldozer operator 850.683-010.
 - (2) Blaster 859.261-010.
 - b. Federal civil service classification.
 - (1) Tank driving WG 5707
 - (2) Tractor operating WG 5719.
- D. DEMOGRAPHIC INFORMATION BY NUMBER AND PERCENTAGE:
 - 1. CIVILIAN EDUCATION:

CY90	E1-E4		E5		E6	
HSG NON HSG	# 606 20	% 96.81 3.19	# 343 7	% 98.000 2.000	* 224	100 0

- 2. NUMBER AND PERCENTAGE OF SOLDIERS WITH ENGLISH AS A LANGUAGE:
 - a. HISPANIC
 - b. PUERTO RICAN
 - c. FILIPINO
 - d. MEXICAN

- 3. GENDER MIX: No female soldiers.
- E. ANTHROPOMETRIC DATA (5TH TO 95TH PERCENTILE MALE):
 - 1. SHOULDER HEIGHT, STANDING: 133.6 TO 154.2 CM
 - 2. SHOULDER HEIGHT, SITTING: 54.2 TO 65.4 CM
 - 3. SHOULDER HEIGHT, KNEELING: 86.1 TO 95.6 CM
 - 4. FUNCTIONAL ARM REACH: 72.6 TO 90.9 CM
 - 5. OTHER:

F. PHYSICAL QUALIFICATIONS:

- 1. GENERAL PHYSICAL DATA: Frequently lifts and lowers 100 pounds.
 - 2. PULHES PROFILE: 111121 P Physical Capacity or Stamina

U - Upper Extremities

L - Lower Extremities

H - Hearing and Ear

E - Eyes

S - Psychiatric

- 3. MEPSCAT RATING (Physical Demands Rating): Very Heavy.
- 4. VISION:
 - A. COLOR: Must possess normal color vision.
- B. ACUITY: Must pass depth acuity (Verhoeff Stereoper) test.
- C. DEXTERITY: Must possess finger dexterity in both hands.
- G. APTITUDE DESCRIPTION OF THE TARGET POPULATION:
- 1. AFQT MENTAL CATEGORY DISTRIBUTION TOTAL FORCE GRADE E-1 THRU E-7 BY NUMBER AND PERCENTAGE:

	CY87						
		E1-	E-4	E-	5	E-	-6
I		15	2.47	2	.57	3	1.35
II		114	19.20	54	15.51	39	17.64
IIIA		133	22.28	67	19.25	49	22.17
IIIB		248	41.66	137	39.36	87	39.36
IV		85	14.34	88	25.28	43	19.45

AFOT MEAN SCORE

2. QUALITY DISTRIBUTION - USAREC ANNUAL PRODUCTION & GOALS BY NUMBER AND PERCENTAGE:

			PF	RODUCTIO	NC				G	SOAL
	C.	Y-3	CY-	-2	CY	-1	CY	•	CZ	7+1
	#	8	#	8	#	8	#	8	#	8
IIIA			53	3.9	5	8.0	54	.0	51	L.O
IIIB			43	3.1	3	3.0	31	.0	34	1.0
IV				3.0		8.9	15	.0	15	5.0

3. PREREQUISITE APTITUDE AREA SCORE: Combat Operations

- a. COMPONENTS OF APTITUDE AREA INCLUDE:
 Arithmetic Reasoning (AR)
 Auto and Shop (AS)
 Coding Speed (CS)
 Mechanical Comprehension (MC)
- b. APTITUDE AREA ENTRY LEVEL SCORE:

4. APTITUDE AREA SCORE DISTRIBUTION BY NUMBER AND PERCENTAGE:

CC)						
	E	L-E4		E5		E6	
	#	*	#	*	#	8	
80-84	10	1.46	27	7.41	51	21.88	
84-89	76	11.16	25	6.86	13	5.57	
90-94	104	15.27	48	13.18	25	10.72	
95-99	90	13.21	49	13.46	24	10.30	
100-104	93	13.65	49	13.46	16	6.86	
105-109	87	12.77	50	13.73	31	13.30	
110-114	48	7.04	30	8.24	16	6.86	
115-119	56	8.22	34	9.34	25	10.72	
120-124	45	6.60	34	9.34	11	4.72	
125-129	35	5.13	8	2.19	8	3.43	
130 >	25	3.67	10	2.74	13	5.57	

5. TARGET READING GRADE LEVEL BY NUMBER AND PERCENTAGE:
(AS OF END OF FY87) RGL

/ VO OI	BND OF FIG.)	1/77
•		.	8
SL-1	9.5	533	45.55
SL-2	9.5	329	28.11
SL-3	10.3	233	19.91
SL-4	11.0	75	6.41
MOMBE SEE C	TTTTC O C		

TOTAL ALL SKILLS-9.6

MOS 12B,GS2-5 DP #704

COMBAT ENGINEER

CRITICAL TASK LIST INTRODUCTION

- 1. This critical task list is organized into the following three sections:
 - a. Section I Tasks pertain to common soldier duties.

The following duty areas (DA) apply to subject duty position:

DA CODE	DA TITLE
XA XB	Perform first aid duties Perform nuclear, biological, and chemical (NBC) duties
XC	Perform weapons maintenance duties
XD	Perform security and intelligence duties
XE	Perform land navigation duties
XF	Send a Radio Message
XG	Perform camouflage and concealment duties
XK	Apply customs and laws of war

- b. Section II Lists by general subject areas, the critical tasks to be trained in MOS 12B the recommended training references; the type of training required (resident, integration, or sustainment); and a crosswalk to an ARTEP task, as appropriate.
- c. This critical task list is not a self-supportive document. Each generic task is supported by an audit trail as required by TRADOC reg 350-7. The audit trail includes a cross match between item-specific critical tasks and generic tasks. In addition, the generic task analysis will include all critical performance measures and knowledge and skills associated with the item-specific tasks.
- 2. Table of Contents:

SECTION I

PAGES C10 to C-13

SECTION II

PAGES C-14 to C-18

CRITICAL TASK LIST

SECTION I

DA/CODE/TASK NO.	TASK STATEMENT
XA	
081-831-1000	Evaluate a Casualty
081-831-1003	Clear an Object from the Throat of a Conscious Victim
081-831-1005	Prevent Shock
081-831-1007	Give First Aid for Burns
081-831-1008	Recognize and Give First Aid For Heat Injuries
081-831-1009	Give First Aid for Frostbite
081-831-1016	Put on a Field or Pressure Dressing
081-831-1017	Put on a Tourniquet
081-831-1025	Apply a Dressing to an Open Abdominal Wound
081-831-1026	Apply a Dressing to an Open Chest Wound
081-831-1030	Administer Nerve Agent Antidote to Self (Self-Aid)
081-831-1031	Administer First Aid to Nerve Agent Casualty (Buddy-Aid)
081-831-1033	Apply a Dressing to an Open Head Wound
081-831-1034	Splint a Suspected Fracture
081-831-1040	Transport a Casualty Using a One-Man Carry
081-831-1041	Transport a Casualty Using a Two-man Carry or Improvised Litter
081-831-1042	Perform Mouth-to-Mouth Resuscitation
XB	
031-503-1001	Maintain Your M17-Series Protective Mask with Hood
031-503-1002	Put on, Wear, and Remove Your M17- Series Protective Mask with Hood
031-503-1003	Store Your M17-Series Protective Mask with Hood in Carrier
031-503-1007	Decontaminate Your Skin and Personnel Equipment
031-503-1009	Drink, Use the Latrine, and Check Soldier Sleeping in MOPP 4
031-503-1010	Replace Filters in Your M17-Series Protective Mask
031-503-1011	Maintain Your M24, M25, or M25Al Protective Mask with Hood

031-503-1012	Put on, Wear, Remove, and Store Your M24, M25, or M25Al Protective Mask with Hood
031-503-1014	Use M8 Detector Paper to Identify Chemical Agent
031-503-1015	Put on and Wear MOPP Gear
031-503-1018	React to Nuclear Hazard
031-503-1019	Recognize and React to Chemical or
	Biological Hazard
031-503-1020	Use M9 Detector Paper to Detect Chemical Agent
031-503-1021	Mark NBC Contaminated Area
031-503-1022	Decontaminate Equipment Using M13
	Decontamination Apparatus
	Portable (DAP)
031-503-1023	Exchange MOPP Gear
031-503-2002	Decontaminate Equipment Using ABC M11
001 000 2001	Decontaminating Apparatus
	accommutating apparance
ХC	
071-311-2001	Perform Operator Maintenance on a M16A1
0.1 0.1 0001	Rifle, Magazine, and Ammunition
071-311-2003	Load, Reduce a Stoppage, and Clear a
0/1 511 2005	M16A1 Rifle
071-311-2004	Battle sight Zero a M16A1 Rifle
071-311-2101	Perform Operator Maintenance on a M203
0,1 011 0101	Grenade Launcher and Ammunition
071-311-2102	Load, Unload, and Clear a M203 Grenade
0/1 511 5105	Launcher
071-311-2104	Engage Targets with a M203 Grenade
0.2 022 2201	Launcher and Apply Immediate
	Action to reduce a Stoppage
071-312-3001	Load, Reduce a Stoppage, and Clear a M60
0.1 011 0001	Machine Gun
071-312-3002	Fire a M60 Machine Gun
071-312-3005	Perform Operator Maintenance on a M60
	Machine Gun and Ammunition
071-312-3007	Prepare a Range Card for a M60 Machine
•••	Gun
071-318-2201	Prepare a M72A2 Law for Firing: Restore
0.1 0.0 1.01	a Law to Carrying Configuration
071-318-2202	Engage Targets with a M72A2 Law
071-318-2203	Apply Immediate Action to Correct a
J. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Malfunction on a M72A2 Law
071-318-4401	Perform Safety Checks on Hand Grenades
071-325-4402	Engage Enemy Targets with Hand Grenades
071-325-4405	Identify Employ Hand Grenades
T, _ U _ T _ T _ T _ T _ T _ T _ T _ T _ T _	

071-325-4412	Install and Fire/Recover a M18A1 Claymore Mine
071-325-0502	Move Under Direct Fire
071-326-0503	Move Over, Through, or Around Obstacles
071-320-0303	(Except Mine fields)
071-326-0510	React to Indirect Fire
071-326-0511	React to Flares
071-326-0513	Select Temporary Fighting Positions
071-326-5703	Construct Individual Fighting positions
071-331-0852	Clear Fields of Fire
441-091-1101	Perform Search and Scan Procedures
441-091-1102	Engage Hostile Aircraft with Small Arms
XD	
071-326-0512	Estimate Range
071-331-0801	Use Challenge and Password
071-331-0803	Collect/Report Information-SALUTE
071-331-0804	Conduct Day and Night Surveillance
	without the Aid of Electronic
	Devices
071-331-0815	Practice Noise, Light, and Litter
	Discipline
878-920-1001	Recognize Friendly and Threat Armored
	Vehicles
XE	
XE 071-329-1001	Identify Terrain Features on a Map
	Identify Terrain Features on a Map Determine the Grid Coordinates of a
071-329-1001	Determine the Grid Coordinates of a
071-329-1001	Determine the Grid Coordinates of a Point on a Military Map Using the
071-329-1001	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System
071-329-1001 071-329-1002	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a
071-329-1001 071-329-1002	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass
071-329-1001 071-329-1002 071-329-1003	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a
071-329-1001 071-329-1002 071-329-1003	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association
071-329-1001 071-329-1002 071-329-1003 071-329-1005	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to
071-329-1001 071-329-1002 071-329-1003 071-329-1005	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association Determine Direction Using Field-
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012 071-329-1018	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association Determine Direction Using Field- Expedient Methods
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012 071-329-1018 XF	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association Determine Direction Using Field-
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012 071-329-1018 XF	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association Determine Direction Using Field- Expedient Methods
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012 071-329-1018 XF 113-571-1016	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association Determine Direction Using Field- Expedient Methods Send a Radio Message
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012 071-329-1018 XF 113-571-1016 XG	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association Determine Direction Using Field- Expedient Methods Send a Radio Message Camouflage Yourself and Your Individual
071-329-1001 071-329-1002 071-329-1003 071-329-1005 071-329-1006 071-329-1008 071-329-1012 071-329-1018 XF 113-571-1016 XG	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System Determine a Magnetic Azimuth Using a Compass Determine a Location on the Ground by Terrain association Navigate from One Point on the Ground to Another Point, Dismounted Measure Distance on a Map Orient a Map to the Ground by Map- Terrain association Determine Direction Using Field- Expedient Methods Send a Radio Message

051-192-1022 Locate Mines by Probing 051-202-1363 Camouflage Your Defensive Position

XK
181-906-1505 Conduct Combat Operations According to the Law of War

TOTAL NUMBER OF TASKS, SECTION I -80

CRITICAL TASK LIST

SECTION II

TASK NUMBER	TASK STATEMENT
051-192-1001	Install/remove the M14 antipersonnel mine
051-192-1002	Install/remove the M16A1 antipersonnel mine
051-192-1006	Install/remove the M15 antitank mine
051-192-1007	Install/remove the M19 antitank mine
051-192-1008	Install/remove the M21 antitank mine
051-192-1014	Install/remove US antihandling devices
	on antitank mines
051-192-1021	Locate mines by visual means
051-192-1023	Locate mines using the AN/PSS11 mine
	detector
051-192-1040	Locate mines using nonmetallic mine
	detectors (AN/PRS-7or AN/PRS-8)
051-192-1045	Recognize and distinguish friendly and
	Threat mines and firing devices
051-1)3-1001	Use and maintain demolition equipment
051-193-1002	Construct a nonelectric
	initiating/detonating assembly
051-193-1003	Prime explosives nonelectrically
051-193-1004	Construct an electric
	initiating/detonating assembly
051-193-1005	Prime explosives electrically
051-193-1007	Prime explosives with detonating cord
051-193-1011	Install dual firing systems
051-193-1013	Neutralize booby traps
^51-193-1025	Neutralize mines
051-195-1004	Install pickets, make barbed wire ties, and install concertina
051-201-1004	Use/maintain engineer tools
051-201-2005	Operate generator set, 3 KW, MEP-016A
051-198-1007	Assist in the assembly of a 4-float class 60 bridge/raft
051-198-1008	Assist in the operation of a pneumatic assault boat
051-198-1009	Assist in the assembly of an M4T6 saddle
051-198-1010	assembly Assist in the assembly of a light
051-198-1011	tactical raft (LTR) Assist in the installation of overhead
551-721-1306	anchorage system components Perform operator/crew preventive maintenance check/services

051-197-1003	Assist in the assembly of an M4T6 fixed span
051-197-1004	Assist in the assembly of a double- single Bailey bridge
051-200-1001	Tie knots and lashing
051-200-1002	Prepare a simple tackle system
051-200-1010	Use and maintain rigging equipment
071-333-6001	Drive a wheeled vehicle cross-country
071-333-6004	Operate blackout control and drive a
	wheeled vehicle using blackout
	drive
071-333-6004	Start a wheeled vehicle engine using
	auxiliary power
091-501-1605	Recover a wheeled vehicle
071-333-6500	Drive a tracked vehicle (M113A1 or M901)
071-333-6503	Operate light control and M19 infrared
	periscope on a tracked vehicle
071-333-6504	Operate a tracked vehicle in water
071-333-6505	Start a tracked vehicle engine using
	auxiliary power
091-501-1010	Recover a tracked vehicle using field expedients
071-333-6512	Negotiate obstacles in a tracked vehicle

TOTAL NUMBER OF TASKS, SECTION II - $\underline{42}$

MOS 12B, SL 1/2, DP # 704 CRITICAL TASK LIST

SECTION II

TASK NUMBER	TASK STATEMENT
051-192-2009	Install/remove the M1 one gallon chemical mine with electric detonating assembly
051 100 2026	
051-192-2026	Direct a minefield marking party Clear misfires
051-193-2026	• - · · · · · · · · · · · · · · · · · ·
061-283-6003	Call for/adjust indirect fire Control fire team movement
071-326-5605 071-326-5606	Select fire team/scout squad overwatch
0/1-326-3606	position
051-195-2010	Direct construction of fighting position
in	
	urban terrain
051-195-2000	Direct construction of field fighting and
	protective
051-199-3004	Direct construction of expedient drainage
	structures
051-196-2001	Determine limiting slopes
051-196-2002	Determine limiting curves
051-196-2003	Determine stream (GAP) width
051-196-2004	Determine stream velocity
051-198-2007	Classify vehicles using expedient methods
051-192-3029	Direct a minefield laying party
051-192-3031	Direct a minefield recording party
051-192-3032	Direct installation/removal of a hasty
	protective minefield
051-192-3034	Direct a minefield reconnaissance patrol
051-192-3050	Direct a mine sweeping team
051-192-4056	Conduct a hasty breach of a minefield
051-193-3040	Employ bridge demolitions
051-193-3050	Calculate and designate placement of timber-cutting charges
051-193-3051	Calculate and designate placement of
051-193-3051	steel-cutting charges
051-193-3052	Calculate and designate placement of
	breaching charges
051-193-3053	Calculate explosives and designate
	placement of cratering
051-193-3054	Prepare a demolition reconnaissance report
051-193-3055	Prepare/compile nonnuclear demolition
071-226-5505	target folders Prepare and issue an oral squad operation
071-326-5505	Prepare and issue an oral squad operation order
051-194-3500	Conduct a patrol
	<u>-</u>

051-195-3003 051-195-3005	Direct construction of wire entanglements Direct construction of nonexplosive
051-195-4007	antivehicular obstacles Determine logistical requirement for wire entanglements
051-195-3013	Direct construction of hasty helicopter landing areas
051-196-3009	Prepare a route reconnaissance overlay
051-196-3030	Prepare a road reconnaissance report
051-196-3031	Prepare a tunnel reconnaissance report
051-196-3032	Prepare a ford reconnaissance report
051-196-3033	Prepare a bridge reconnaissance report
051-196-3035	Prepare an engineer reconnaissance report
051-196-3036	Determine the military load classification (MLC) of stringer bridges using the hasty bridge classification wheel
051-197-3004	Direct the assembly of trestle components
051-197-3005	Direct the assembly of an M4T6 fixed span bridge up to 45 feet
051-197-3006	Organize the duties of the Bailey bridge assembly crews
051-197-3007	Perform site layout of a double-single Bailey bridge
051-197-3010	Direct the assembly of bays for a double- double Bailey bridge
051-197-3020	Direct the assembly of a double-single Bailey bridge
051-198-2009	Direct crews in the assembly of a Class 60 raft/bridge
051-198-2010	Direct crews in the assembly of an M4T6 raft/bridge
051-198-2011	Direct crews in the assembly of a light tactical raft (LTR)
051-198-3010	Prepare site layout for M4T6 float bridge/raft
051-198-3014	Direct the assembly of bays of an M4T6 five-float reinforced raft with a 23, 4-inch overhang
051-198-3018	Supervise installation of an overhead cable anchorage system
051-200-3004	Design a tackle system
051-200-3005	Direct construction of expedient lifting devices (A-frame, gin pole, boom derrick, shears, and tripod)

MOS 12B,SL 1/2/3/4, DP

CRITICAL TASK LIST

SECTION II

TASK NUMBER	TASK STATEMENT
051-192-4041	Determine standard pattern minefield logistical requirements
051-192-4051	Supervise the installation/removal of standard pattern minefields
051-192-4052	Supervise minefield clearing operations
051-192-4053	Supervise minefield breaching operations
051-192-4040	Supervise engineer demolition missions
071-326-5626	Prepare and issue an oral operation order (OPOARD)
051-195-4008	Determine logistical requirement for fighting and protective positions
051-195-4009	Determine logistical requirements for nonexplosive antivehicular obstacles
051-195-4050	Prepare engineer estimates
051-195-4051	Supervise preparation of fighting and protective positions in urban terrain
051-199-4500	Design expedient drainage structures
051-196-4012	Conduct platoon reconnaissance missions
051-196-4013	Determine the military load classification of a timber trestle bridge
051-196-4014	Determine the military load classification of a concrete T-beam bridge
051-196-4015	Determine the military load classification of a concrete slab bridge
051-196-4016	Determine the military load classification of a masonry arch bridge
051-197-4028	Determine Bailey bridge requirements
051-197-4029	Supervise construction of a Bailey bridge
051-197-4030	Supervise construction of a timber trestle bridge
051-198-3008	Direct the assembly of the class 60 bridge/raft
051-198-4054	Determine the requirements for the construction of an M4T6 bridge/raft
051-198-4055	Determine float bridge anchorage system requirements

TOTAL NUMBER OF TASKS, SECTION II - $\frac{121}{C-18}$

MOS 12F,SL 1

COMBAT ENGINEER VEHICLE CREWMAN

CRITICAL TASK LIST INTRODUCTION

- 1. This critical task list is organized into the following three sections:
 - a. Section I Tasks pertain to common soldier duties.

The following duty areas (DA) apply to subject duty position:

DA CODE	DA TITLE
XA	Perform first aid duties
XB	Perform nuclear, biological, and chemical (NBC) duties
XC	Perform weapons maintenance duties
XD	Perform security and intelligence duties
XE	Perform land navigation duties
XF	Send a Radio Message
XG	Perform camouflage and concealment duties
XK	Apply customs and laws of war

- b. Section II Lists, by general subject areas, the critical tasks to be trained in MOS 12F, the recommended training materials to use, the initial training location (resident or unit), a suggested frequency of sustainment training, and a cross-walk to an ARTEP task. An asterisk (*) next to certain training locations indicates that although the task is trained in residence it is not trained to STP standards there.
- c. This critical task list is not a self-supportive document. Each generic task is supported by an audit trail as required by TRADOC reg 350-7. The audit trail includes a cross match between item-specific critical tasks and generic tasks. In addition, the generic task analysis will include all critical performance measures and knowledge and skills associated with the item-specific tasks.
- 2. Table of Contents:

SECTION I	PAGES	C-19	to	C-22
SECTION II	PAGES	C-23	to	C-26

CRITICAL TASK LIST SECTION I

DA/CODE/TASK NO.	TASK STATEMENT
XA	
081-831-1000	Evaluate a Casualty
081-831-1003	Clear an Object from the Throat of a
	Conscious Victim
081-831-1005	Prevent Shock
081-831-1007	Give First Aid for Burns
081-831-1008	Recognize and Give First Aid For
001-031-1000	Heat Injuries
081-831-1009	Give First Aid for Frostbite
081-831-1016	Put on a Field or Pressure Dressing
081-831-1017	Put on a Tourniquet
081-831-1025	Apply a Dressing to an Open Abdominal
001 001 1010	Wound
081-831-1026	Apply a Dressing to an Open Chest
	Wound
081-831-1030	Administer Nerve Agent Antidote to
	Self (Self-Aid)
081-831-1031	Administer First Aid to Nerve Agent
001 001 1001	Casualty (Buddy-Aid)
081-831-1033	Apply a Dressing to an Open Head
001-031-1033	Wound
081-831-1034	Splint a Suspected Fracture
081-831-1040	Transport a Casualty Using a One-Man
	Carry
081-831-1041	Transport a Casualty Using a Two-man
001 001 1011	Carry or Improvised Litter
081-831-1042	Perform Mouth-to-Mouth Resuscitation
001 001 1012	10110111 Houdin to Houdin Mondoottudton
хв	
031-503-1001	Maintain Your M17-Series Protective
031-303 1001	Mask with Hood
031-503-1002	Put on, Wear, and Remove Your M17-
031-303-1002	Series Protective Mask with Hood
031-503-1003	Store Your M17-Series Protective Mask
031-303-1003	
021 502 1007	with Hood in Carrier
031-503-1007	Decontaminate Your Skin and Personnel
024 502 4000	Equipment
031-503-1009	Drink, Use the Latrine, and Check
	Soldier Sleeping in MOPP 4
031-503-1010	Replace Filters in Your M17-Series
	Protective Mask
031-503-1011	Maintain Your M24, M25, or M25Al
	Protective Mask with Hood
031-503-1012	Put on, Wear, Remove, and Store
	Your M24, M25, or M25A1
	Protective Mask with Hood
	C-20

MOS 12F, SL 1/2/3/4, DP

031-503-1014	Use M8 Detector Paper to Identify Chemical Agent
031-503-1015	Put on and Wear MOPP Gear
031-503-1015	React to Nuclear Hazard
031-503-1019	Recognize and React to Chemical or
031-303-1013	Biological Hazard
031-503-1020	Use M9 Detector Paper to Detect
001 000 1010	Chemical Agent
031-503-1021	Mark NBC Contaminated Area
031-503-1022	Decontaminate Equipment Using M13
	Decontamination Apparatus
	Portable (DAP)
031-503-1023	Exchange MOPP Gear
031-503-2002	Decontaminate Equipment Using ABC
	Mll Decontaminating Apparatus
XC	
071-311-2001	Perform Operator Maintenance on a
	M16Al Rifle, Magazine, and
	Ammunition
071-311-2003	Load, Reduce a Stoppage, and Clear a
0	M16A1 Rifle
071-311-2004	Battle sight Zero a M16A1 Rifle
071-311-2101	Perform Operator Maintenance on a
	M203 Grenade Launcher and
071-311-2102	Ammunition Load, Unload, and Clear a M203 Grenade
0/1-311-2102	Launcher
071-311-2104	Engage Targets with a M203 Grenade
0/1-311-2104	Launcher and Apply Immediate
	Action to reduce a Stoppage
071-312-3001	Load, Reduce a Stoppage, and Clear a
	M60 Machine Gun
071-312-3002	Fire a M60 Machine Gun
071-312-3005	Perform Operator Maintenance on a M60
	Machine Gun and Ammunition
071-312-3007	Prepare a Range Card for a M60 Machine
	Gun
071-318-2201	Prepare a M72A2 Law for Firing: Restore
	a Law to Carrying Configuration
071-318-2202	Engage Targets with a M72A2 Law
071-318-2203	Apply Immediate Action to Correct a
071-318-4401	Malfunction on a M72A2 Law
071-318-4401	Perform Safety Checks on Hand Grenades
071-325-4402	Engage Enemy Targets with Hand Grenades Identify Employ Hand Grenades
071-325-4412	Install and Fire/Recover a M18A1
0/1-323-4412	Claymore Mine
071-325-0502	Move Under Direct Fire
071-325-0502	Move Over, Through, or Around
0,1 000 000	Obstacles (Except Mine fields)
071-326-0510	React to Indirect Fire
	C-21
	

071-326-0511 071-326-0513 071-326-5703 071-331-0852 441-091-1101 441-091-1102	React to Flares Select Temporary Fighting Positions Construct Individual Fighting Positions Clear Fields of Fire Perform Search and Scan Procedures Engage Hostile Aircraft with Small Arms
XD	
071-326-0512	Estimate Range
071-331-0801	Use Challenge and Password
071-331-0803	Collect/Report Information-SALUTE
071-331-0804	Conduct Day and Night Surveillance without the Aid of Electronic Devices
071-331-0815	Practice Noise, Light, and Litter Discipline
878-920-1001	Recognize Friendly and Threat Armored Vehicles
XE	
071-329-1001	Identify Terrain Features on a Map
071-329-1002	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System
071-329-1003	Determine a Magnetic Azimuth Using a Compass
071-329-1005	Determine a Location on the Ground by Terrain association
071-329-1006	Navigate from One Point on the Ground to Another Point, Dismounted
071-329-1008	Measure Distance on a Map
071-329-1012	Orient a Map to the Ground by Map- Terrain association
071-329-1018	Determine Direction Using Field- Expedient Methods
XF	Dipodiona nooneda
113-571-1016	Send a Radio Message
XG	
051-191-1361	Camouflage Yourself and Your Individual Equipment
051-191-1362	Camouflage Equipment
051-192-1022	Locate Mines by Probing
051-202-1363	Camouflage Your Defensive Position
XK	
181-906-1505	Conduct Combat Operations According to the Law of War

TOTAL NUMBER OF TASKS, SECTION I - 80

MOS 12F, SL 1/2/3/4, DP

CRITICAL TASK LIST

SECTION II

TASK NUMBER	TASK STATEMENT
071-326-0608	Communicate Using Visual Signalling Techniques
113-587-3072	Perform Operator's Preventive Maintain system Checks and Services (PMCS) on Radio Set AN/VRC-64 or AN/GRC- 160 AN/VRC-53 or AN/GRC-125
051-225-3019	Operator a Hot-Loop Wire Communication System
113-622-2010	Place into Operation Inter communication Set AN/VIC-1
031-510-0003	Prepare for a Nuclear Attack CEV Loader
031-510-0004	Prepare for a Nuclear Attack CEV Driver
031-510-0001	Prepare for a Nuclear Attack AVLB Operator
051-225-1000	Perform Before Operations PMCS on a CEV
051-225-1001	Perform During Operation PMCS on a CEV
051-225-1002	Perform After Operation PMCS on a CEV
051-225-1002	Perform Weekly PMCS on a CEV
051-225-1004	Perform Monthly PMCS on a CEV
051-225-1005	Perform Quarterly PMCS on a CEV
051-225-1006	Troubleshoot a CEV
051-225-1007	Repair Track Components on a CEV/AVLB
051-225-0212	Slave Start a CEV/AVLB
051-226-0202	Hydraulically Slave an AVLB
051-226-1000	Perform Before Operation PMCS on an AVLB
	Launcher
051-226-1001	Perform During Operation PMCS on an AVLB
051-226-1002	Perform After Operation PMCS on an AVLM
051-226-1003	Perform Weekly PMCS on an AVLB Launcher
051-226-1004	Perform Monthly PMCS on an AVLB Launcher
051-226-1005	Troubleshoot an AVLB Launcher
051-226-1012	Perform PMCS on the AVLB Bridge
171-123-1023	Maintain Operator's Part of Equipment Record Folder
051-225-0308	Raise the CEV Moldboard using the Emergency Lift Cables
051-225-1011	Prepare and Operate the Moldboard of a CEV
051-225-1012	Operate the AN/VVS-2 Night Vision Viewer on the CEV/AVLB
051-225-1013	Operate the M24 IR Periscope on a CEV/AVLB
051-225-1030	Drive the CEV/AVLB
051-226-1008	Self Recover an AVLB
051-226-1010	Bridge a Gap Using the AVLB
051-226-1011	Screen Vehicle Movement from Enemy Observation Using the Engine Smoke Generator
	C-23

051-226-1013	Retrieve the AVLB Bridge Operator
171-123-1049	Start/Stop the Engine on an M48A5/M60-Series
	Tank/CEV
171-123-1051	Extinguish a Fire on an M48A5/M60-Series
1/1-125-1051	
	Tank/CEV
171-123-1052	Self-Recover an M48A5/M60-Series Tank/CEV
051-225-1019	Respond to a Fire Command Driver
051-225-1020	Prepare the CEV for Firing Loader
051-225-1022	Perform During Firing PMCS on the Main Gun
051-225-1023	Perform After Firing PMCS on the Main Gun
051-225-1023	
	Apply Immediate Action on the Main Gun Loader
171-122-1005	Clear an M240 Machine Gun to Prevent
	Accidental Discharge
171-122-1012	Perform Operator Maintenance on an M240/M240C
	Machine Gun
171-122-1018	Perform Operator Maintenance on a Caliber .50
	M85 Machine Gun
171-122-1023	
1/1-122-1023	Clear a Caliber .50 M85 Machine Gun to
	prevent Accidental Discharge
171-122-1023	Apply Immediate Action on an M240 Machine Gun
171-122-1038	Clear an M73/M219 Machine Gun to Prevent
	Accidental Discharge
171-122-1039	Perform operator Maintenance on an M73/M219
171-122-1033	Machine Gun
171 100 1045	
171-122-1045	Load an M240 Machine Gun
171-122-1049	Load an M73/M219 Machine Gun on an
	M551/M551A1 ARAAV (Sheridan);
	M48A5/M60-Series Tank (Less
171-122-1050	M48A5/M60-Series Tank (Less M60A3) CEV
171-122-1050	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine
171-122-1050	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV
171-122-1050	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank
	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV
171-122-1050 171-123-1078	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank
	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV
	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV
171-123-1078 171-122-1001	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine
171-123-1078 171-122-1001 171-122-1002	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun
171-123-1078 171-122-1001	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1
171-123-1078 171-122-1001 171-122-1002 171-122-1003	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow 7.62mm Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly Prime Explosives Nonelectrically
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly Prime Explosives Nonelectrically
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow 7.62mm Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly Prime Explosives Nonelectrically Construct an Electric Initiating/Detonating
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002 051-193-1003 051-193-1004	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly Prime Explosives Nonelectrically Construct an Electric Initiating/Detonating Assembly
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002 051-193-1003 051-193-1004	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly Prime Explosives Nonelectrically Construct an Electric Initiating/Detonating Assembly Prime Explosives Electrically
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002 051-193-1003 051-193-1004 051-193-1005 051-193-1007	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow 45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly Prime Explosives Nonelectrically Construct an Electric Initiating/Detonating Assembly Prime Explosives Electrically Prime Explosives with Detonating Cord
171-123-1078 171-122-1001 171-122-1002 171-122-1003 051-225-1010 051-225-1017 051-225-1018 051-225-1025 051-225-1026 051-225-1029 051-193-1002 051-193-1003 051-193-1004	M48A5/M60-Series Tank (Less M60A3) CEV Apply Immediate Action on an M73/M219 Machine Gun on an M551/M551A1 ARAAV (Sheridan); M48A5/M60-Series Tank (Less M60A3) CEV Load/Unload an M239 Grenade Launcher on an M48A5/M60 Series Tank/CEV Engage Targets with an M3/M3A1 Submachine Clear M3/M3A1 Submachine Gun Perform Operator Maintenance on M3/M3A1 Submachine Gun Stow UKL8A1RP Smoke Grenades on a CEV/AVLB Stow 165mm Ammunition on a CEV Stow .50-Caliber Ammunition on a CEV Stow .45-Caliber Ammunition on CEV Stow Hand Grenades on a CEV Construct a Nonelectric Initiating/Detonating Assembly Prime Explosives Nonelectrically Construct an Electric Initiating/Detonating Assembly Prime Explosives Electrically

051-200-1001	Tie Knots and Lashings
051-225-1015	Abandon a CEV: Driver
051-225-1016	Direct the Evacuation of a Wounded Crew
	Member from the CEV
051-225-1021	Watch for the Enemy from the CEV White in a
051-225-1021	Defensive Position
0E1 20E 1020	
051-225-1028	Abandon a CEV: Loader
051-226-1009	Abandon an AVLB: Operator
031-510-0006	Prepare for a Nuclear Attack: AVLB Commander
051-225-0304	Conduct a Slippage and Accuracy Check of the
	Azimuth Indicator
051-226-2001	Supervise Hydraulically Slaving an AVLB
051-226-2005	Tow a Disabled AVLB Launcher
051-226-2002	Direct Loading an AVLB Bridge into a Lowbed
031-220-2002	Trailer
051 005 0000	
051-226-2003	Direct Unloading an AVLB Bridge Off a Lowbed
	Trailer
051-226-2010	Retrieve the AVLB Bridge Commander
051-225-2005	Prepare the CEV for Firing Gunner
051-225-2006	Engage Targets with the Main Gun
171-122-1043	Engage Targets with the Coax Machine Gun from
	the Gunner's Station on an
	M48A5/M60 Series Tank/CEV (Less
	the M60A3)
171 124 0000	
171-134-0002	Engage Targets Using the Auxiliary Fire
	Control Instruments
051-225-2011	Prepare a Range Card for a CEV
171-123-1027	Fire the M239 Smoke Grenade Launchers on an
	M48A5/M60 Series Tank/CEV
051-225-2001	Abandon a CEV Gunner
051-226-2008	Abandon an AVLB: Commander
061-283-6003	Call For/Adjust Indirect Fire
051-226-0301	Recon a Potential AVLB Launcher Site
	Select a Route to Accommodate an AVLB
051-226-0302	
	Launcher
071-326-5811	Conduct a Passage of Lines with Vehicle(s)
071-332-5025	Prepare Status Report (STATREP)
031-510-0005	Prepare for a Nuclear Attack: CEV Commander
051-225-3002	Supervise Towing a Disabled CEV
051-225-3004	Supervise Raising the CEV Moldboard using the
	Emergency Lift Cables
051-225-3010	Direct Moving a Load by Direct Winching
	Operate the CEV Winch and Boom
051-225-3011	
1151-225-31113	- Direct Mademiles Abakanlas Waisan Aba AMM
051-225-3013	Direct Reducing Obstacles Using the CEV
	Moldboard
171-123-1025	Moldboard Operate the Tank/CEV Searchlight
	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander
171-123-1025 051-225-3005	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander
171-123-1025 051-225-3005 051-225-3005	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander Supervise Range Card Preparation for a CEV
171-123-1025 051-225-3005	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander Supervise Range Card Preparation for a CEV Supervise Engaging Targets with the 165mm
171-123-1025 051-225-3005 051-225-3005 051-225-3017	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander Supervise Range Card Preparation for a CEV Supervise Engaging Targets with the 165mm Demolition Gun
171-123-1025 051-225-3005 051-225-3005	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander Supervise Range Card Preparation for a CEV Supervise Engaging Targets with the 165mm Demolition Gun Engage Targets with a Caliber .50 M85 Machine
171-123-1025 051-225-3005 051-225-3005 051-225-3017 171-122-1022	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander Supervise Range Card Preparation for a CEV Supervise Engaging Targets with the 165mm Demolition Gun Engage Targets with a Caliber .50 M85 Machine on an M60-Series Tank/CEV
171-123-1025 051-225-3005 051-225-3005 051-225-3017	Moldboard Operate the Tank/CEV Searchlight Prepare the CEV for Firing: Commander Supervise Range Card Preparation for a CEV Supervise Engaging Targets with the 165mm Demolition Gun Engage Targets with a Caliber .50 M85 Machine

171-134-0001	Determine Range Using the Cupola-Mounted Machine Gun
171-134-0003	Supervise Engaging Targets with the 7.62mm Coax Machine Gun
051-225-3007	Supervise Personnel Handling Ammunition
051-225-3009	Supervise CEV Rigging Operations
051-225-3018	Abandon a CEV: CEV Commander
051-225-3015	Supervise the Preparation of a CEV Firing
	Position for Nighttime
	Reoccupation
051-225-3021	Select a CEV Firing Position
051-225-4001	Prepare CEV/AVLB for an Air Movement
051-225-4002	Operate a CEV Crew Qualification Range
051-225-4000	Inspect Tactical Positions
051-225-4004	Prepare Mobility/Countermobility Platoon Fire
	Plan
171-123-4003	Supervise Assembly Area Activities
171-123-4007	Coordinate Passage of Lines

TOTAL NUMBER OF TASKS, SECTION II 120



CODE

DUTY POSITION

MOS 55D EXPLOSIVE ORDNANCE DISPOSAL (EOD) SPECIALIST

A. CURRENT INVENTORY and PROJECTED FORCE STRUCTURE. (Data Source for projected force structure is PMAD through the FORCAST system. Current inventory figures are obtained from the EMF through the FORCAST system.)

	SKILL	FY90	INVENTORY	FY91	FY92	F Y 93
GRADE	LEVEL	AUTH	STRENGTH %	AUTH	AUTH	AUTH
E3	SL1	100	63	101	101	94
E4	SL1	39	269	72	72	72
Ē5	SL2	224	84	174	174	175
E 6	SL3	258	100	228	229	231
E 7	SL4	140	83	142	141	138
E8	SL5	89	98	86	86	86
E9	SL5	14	128	14	14	14

B. STANDARDS of GRADE AUTHORIZATIONS. (Data Source is AR 611-201.)

AUTHORIZED POSITIONS*

RANK 1 2 3 4 5 6 7 8 9 10 EXPLANATORY NOTES

55D10	PFC		•	I	1	1	1			ap po a. VI au c. d.	is pattern will be plied to combine sitions in: EOD response section Nuclear, chemical. P. or conventional gmentation teams. EOD control center EOD control group EOD response team agmentation.
			_				1			•	
5 5D2O	SGT	1	1	1	2	2			_		
55D30	SSG		1	1	1	2	2				
E) (ASI	J5)										
						1	2	2	2	2	2 Grades of additional positions will be in same pattern
											5
											3
	55D10 55D20 55D30 E) (ASI 55D10J5	55D10 SPC 55D20 SGT 55D30 SSG E) (ASI J5) 55D10J5 SPC 33D20J5 SGT	55D10 SPC 55D20 SGT 1 55D30 SSG E) (ASI J5) 55D10J5 SPC	55D10 SPC 55D20 SGT 1 1 55D30 SSG 1 E) (ASI J5) 55D10J5 SPC 33D20J5 SGT 1 1	55D10 SPC 55D20 SGT 1 1 1 55D30 SSG 1 1 E) (ASI J5) 55D10J5 SPC 1	55D10 SPC 55D20 SGT 1 1 1 2 55D30 SSG 1 1 1 E) (ASI J5) 55D10J5 SPC 1 1 35D20J5 SGT 1 1 1 2	55D10 SPC 55D20 SGT 1 1 1 2 2 55D30 SSG 1 1 1 2 E) (ASI J5) 55D10J5 SPC 1 1 1 1 2 2	55D10 SPC 1 55D20 SGT 1 1 1 2 2 2 55D30 SSG 1 1 1 2 2 E) (ASI J5) 55D10J5 SPC 1 1 1 2 53D20J5 SGT 1 1 1 2 2 2	55D10 SPC 1 55D20 SGT 1 1 1 2 2 2 55D30 SSG 1 1 1 2 2 E) (ASI J5) 55D10J5 SPC 1 1 1 2 2 33D20J5 SGT 1 1 1 2 2 2 3	55D10 SPC 1 55D20 SGT 1 1 1 2 2 2 55D30 SSG 1 1 1 2 2 E) (ASI J5) 55D10J5 SPC 1 1 1 2 2 2 3 4	ap po a. b. VI au c. d. e. au 55D10 SPC 1 55D20 SGT 1 1 1 2 2 2 55D30 SSG 1 1 1 2 2

Explanatory motes

EOD section NCO	55D40 55D40J5	SFC	a. In EOD response section b. In operations section OF TE unit
Operations NCO	55D40 55D40J5	SFC	In EOD detachment operation section: EOD team (FA); EOD control center team; EOD control group HQ; weapons/munitions platoon of MI tech intel co.; security, plans, and operations section: missile /munitions branch of HHC & Special troops, TAACOM; tech escort unit.
Liaison NCO	35D40	SFC	
EOD staff NCO	55D50	MSG	In EOD control center, control group (HQ) or when required in augmentation team to security, operations, training & intelligence section of MI tech intel companies.
Detachment NCO	55 D50	MSG	As principal NCO in EOD detacations
EOD Sergeant Major	3 5 050	SGM	As principal NCO in control center team or control group HQ .
* Blank spaces in t	his column	indic	ate not applicable

C. MOS, CIVILIAN DESIGNATION and DESCRIPTION. (Data Sources are AR 611-201, 611-101 & AR 611-112).

1. CAREER MANAGEMENT FIELD:	35	AMMUNITION
2. OPERATOR MOS:	3 5 D	EOD Specialist
3. ADDITIONAL SKILL IDENTIFIERS:	A5	Technical Intelligence
	j5	Technical Escort
	£ 5	Master Fitness Trainer
	R5	Research, Development. Test, and Evaluation
4. Special Qualification Identifiers	Н	Instructor
	*	Linguist
	- 3	Orill Instructor
	2	Training Developer

security Clearance: Secret with Background Investigation

6. Job Description: Explosive Ordnance Disposal Specialist (Data source is AR 611-201)

Major duties: The EOD specialist supervises or performs explosive ordnance disposal activities. Duties for each skill level are:

- a. MOS 55D10. Assist in the location, identification, rendering safe removal, and destruction of explosive ordnance other than nuclear.
- b. MOS 55D20. Locates, identifies, renders safe, removes or destroys domestic and foreign non-nuclear explosive ordnance, chemical agents and biological munitions, and other explosive compounds. Performs initial render safe procedures on U.S. nuclear weapons and disposal procedures on Army nuclear weapons.
- c. MOS 55D30. Functions as Team Leader, and supervises or performs duties in previous skill levels and provides technical and professional guidance to lower grade personnel in accomplishment of these duties.
- d. MOS 55D40. Functions as Operations NCO, liaison NCO and supervises or performs duties of previous skill levels, provides technical and professional guidance to lower grade personnel in accombishment of these duties.
- e. MOS 55D50. Functions as Detachment NCO in a unit, Staff NCO at a Major Command or as Sergeant Major in a control group or headquarters, able to perform at previous skill levels, supervises EOD activities and provides technical and professional guidance to others.
- 7. Related Civilian Occupation: (Data source is AR 611-201).

		DOT Classification
a.	Assembler, mechanical ordnance	737.684-010
b.	Bomb Loader	737.684-014
С.	Fuze Assembler	737.684-022
d.	Production Assembler	737.684-034
е.	Demolition specialist (ordnance)	737.684-034
f.	Munitions Destroyer (FCSC)	WG 6505

- D. DEMOGRAPHIC INFORMATION: (Data Source is EMF through the FORCAST System)
 - 1. Civilian Education:

	CY	*
High School Graduate	402	55.58
GED	58	3.00
i Year College	241	15.86
2 Years College	82	11.31
3 Years College	35	4.36
4 Years College	2 8	3 86
5 Years or more College	2	. 27

2. Percent with English as a Second Language:

Hispanic	1.96%
Other	2.09%

- 3. Sender Mix: 3.83% (31 Females)
- E. ANTHROPOMORPHIC DATA (5th percentile female to 95 percentile male). (Data source is Mil Std 1472C).

		5 % FEMALE	95 % MALE
1.	Weight - clothed	107.6 lbs	198.8 lbs
2.	Stature - clothed	61.8 in	74.4 in
3.	Functional reach	25.2 in	34.1 in
4.	Functional reach, extended	28.9 in	39.8 in
5.	Overhead reach height	73.0 in	90.8 in
6.	Overhead reach, sitting	46.2 in	57.9 in
7.	Functional leg length	39.2 in	50.3 in
8.	kneeling height	45.1 in	53.9 in

- F. PHYSICAL QUALIFICATIONS: (Data source is AR 611-201)
 - 1. General Physical Data:
 - a. Carrying capacity: Frequently lifts 95 pounds and carries up to 100 meters.
 - b. Special clothing requirements: Frequently required to wear M3. Toxicological Agent Protective suit or Rocket Fuel Handlers protective suit or nuclear contamination protective clothing.
 - 2. PULHES Profile:

 P- physical capacity or stamina
 U- upper extremities
 L- lower extremities
 H- hearing and ears
 111121
 E- eyes
 S- psychiatric
 - 3. Mepscat Rating (Physical Demands rating): Very Heavy
 - 4. Vision: Normal color vision and correctable to 20/20 in both eyes.
 - 5. Yust possess dexterity in both hands
 - 6. Must be able to hear normal voice communications at a distance of 25 feet.
 - 7. Meet personnel reliability program criteria contained in AR 50-5 and 4R 50-6.
 - 3. Non-allergic to explosive compounds.
 - 1. A citizen of the United States of America.
 - 10. Be an EOD duty volunteer.
- 3. APTITUDE DESCRIPTION OF TARGET POPULATION: (Data source is EMF through the MANPRINT Database)

1. Armed Forces Qualification Test Mental Category for target population for pay grades E-1 through E-9.

	NUMBER	MC_I	MC II	MC IIIA	MC IIIB	MC IV
E1	16		56.25	31.25	12.50	
E2	14		78.57	14.28	7.14	
E3	18	22.22	61.11	16.66		
E4	90	10.00	57.77	20.22	12.22	
£5	170	9.41	53.56	21.17	14.70	1.17
E6	247	11.33	54.65	22.67	10.12	1.212
Ξ7	106	13.20	5 2 .83	20.75	12.20	
83	5 7	24.56	49.12	10.52	10.52	5.26
E9	15	20.00	46.66	33.33		

2. Quality Distribution - USARAC Annual Production Goals for MOS 55D10. (Data source is the SEABROOK Report through the FORCAST system)

CURRENT

CATEGORY	YEAR
I-IIIA	8 4%
IIIB	12.8%
IV	2.8%

- 3. Prequisite Aptitude Area Score: General Maintenance (Data source is EMF through the FORCAST system)
 - a. Components of aptitude area include:
 Mathematics Knowledge

General Science
Electronics Information
Automotive Shop

- b. Aptitude area entry level score: 105
- 4. General Maintenance Aptitude Area score distribution by number and percentage:

	P	v2	PF	С	SP	4		SGT	S	SG	s	FC
	٠,	21	(1)	(6	2)	(139)	(1	85)	(47)
79-83							1	.71				
84-68							2	1.43				
89-93							2	1.43				
94-98					1	1.61	1	.71	4	2.16	3	6.38
99-103							15	10.73	11	10.79	11	5.94
104-108		J 0										
109-113	1	50			16	16.12	28	20.14	19	10.20	3	6.38
114-118					15	24.19	20	14.38	3 7	20.00	9	19.14
119-123					2 2	35.48	20	14.38	47	25.40	5	10.63
124-128					7	11.29	25	17.98	36	19.45	12	26.33
129-159			1	100	7	11.29	2 5	17.98	31	16.75	13	27.65
. 60												

5. Target Reading Grade level:

Skill Level 1 12
Skill Level 2 12
Skill Level 3 12
Skill Level 4 12
Skill Level 5 12
Total all Skill Levels 12

H. TRAINING HISTORY: Advanced Individual Training Graduate, Course Length, TTHS Account, Additional Special Training. (Data source is ATRRS through the FORCAST system)

1. Training

a.	Ammunition Specialist 55B10	6	weeks	3	dys
b.	Phase 1 Training - Eglin AFB, FL	10	weeks	2	dys
c.	Phase 2 Training - Indian Head, MD	17	weeks	2	dys
d.	Phase 3 Training - Redstone Arsenal, AL	2	weeks		
е.	Basic Non-commission Officer, Redstone Arsenal, AL	7	weeks	4	dys
f.	Advanced Non-commission Officer, Redstone Arsenal, AL	5	weeks		
g.	Advanced Access and Disablement, Indian Head,MD	2	weeks		
h.	EOD Advanced Refresher,	2	weeks	3	dys
i.	Army EOD Advanced Refresher Training, Kirkland AFB.NM			4	dys
j.	Sergeant Major's Academy, Fort Bliss, TX	24	∗eeks		
k.	55DJ5 Tech Escort, Redstone Arsenal, AL	4	weeks		

2. TTHS Account Snapshot (September 1989)

PV1/PFC	SP4	SGT	SSG	SFC	MSG	SGM
				-		
28	0	5	4	0	2	1

(Data source is DAPC-45)

I. SKILLS and KNOWLEDGE TRAINED: (Data source is AR 611-201)

Identifies characteristics, markings and functioning of all types of domestic and foreign conventional, chemical, and foreign biological munitions and fuzing.

Researches and intereperts EOD reference technical publications.

Assists in the destruction of all types of military, commercial and or improvised explosives.

Reconnoiters area to detect, identify, and classify unexploded ordnance and other hazardous material.

Uses radiac detection instruments and other devices to assist in determining hazards.

Decontaminates ordnance, tools and materiel as required.

Provides assistance relative to closing roads to isolate explosives and contaminated areas.

Constructs protective means, such as barricades to reduce the blast effect of explosive products.

Removes obstructions surrounding explosive ordnance using hand tools or rigging equipment.

Assists in the evacuation of explosive ordnance by the use of proper equipment removal of all hazards from the area.

Provides technical data for reports or briefings.

Operates and performs maintenance on specialized tools and equipment.

Support to law enforcement, fire fighters, and other public service officers.

Assist in determining, accomplishing, or developing render safe procedures for non nuclear ordnance.

Uses safety precautions pertaining to explosive materiel, fissionable materiel, and other hazards.

Photographs, reads and intreprets x-rays, diagrams, and drawings for technical intelligence or incidents.

Identifies various nuclear weapons or components by physical appearances, markings, or nomenclature.

Evaluates existing and potential hazards associated with nuclear components and nuclear contamination.

1. Team leader responsibilities and obligations:

Determines or develops render safe procedures through evaluation of evidence, damage, or deterioration of explosive ordnance.

Prepares technical intelligence reports.

Conducts instruction to military and civilian audiences on sabotage devices, explosive safety, and other matters relating to the EOD mission.

Performs administrative and supervises functions pertaining to supply, security, personnel, training and management.

Conducts liaison with civil, and federal authorities, civil defense agencies, supporting or supported military units.

Assumes command of unit in absence of unit commander.

Suparvises one or more response teams.

Supervises and inspects subordinate EOD units.

2. Additional Skills Taught in the unit.

Defense against enemy attack

Marksmansnip

Land Mavigation

First aid

lommon soldiering skills

- J. TASK PERFORMANCE INFORMATION: (Data source is test and evaluations conducted by TRADOC and FORSCOM)
 - 1. These tasks are high drivers in terms cost and resources:
 - a. Access and Recovery (Rigging and Digging)
 - b. Tactical Training
 - c. Emergency Contamination Control Station
 - d. Emergency Personnel Decontamination Station
 - e. Initial EOD Training (36 weeks)
 - f. Ratio of vehicles versus authorized equipment (TOE and CTA)
 - g. Additional required training as: Supply SGT; Administrative NCO; Maintainance NCO; Training NCO: Publications Specialist; Security NCO
 - 2. Frequently made errors in operations or mission
 - a. Protective works
 - b. Safety distance for explosives
 - c General Safety rules for EOD (TM 60A-1-1-22)
 - d. Prepare T-290A for operation
 - e. Operate ECCS
 - f. Prepare ECCS
 - g. Store hazardous materiel
 - h. Transport hazardous materiel
 - i. Chemical operations
 - j. Assembly of Rocket Wrench
 - k. Operation of Mechanical Impact Wrench

SFC R SALESKY/900216

TARGET AUDIENCE DESCRIPTION

MOS 19D - CAVALRY SCOUT, CMF 19

1. Projected Force Structure

GRADE	SKILL LEVEL	AUTH	FY 90 STRENGTH%	FY91 AUTH	FY92 AUTH	FY93 AUTH
E3/E4	SL 1	4601	106%	4760	4824	4774
E5	SL 2	1636	80%	1661	1678	1679
E6	SL 3	1640	105%	1669	1679	1678
E7	SL 4	673	82%	675	680	679

STANDARDS OF GRADE AUTHORIZATION

DUTY POSITION	CODE	RANK
Scout CFV (M3)	19010	PFC
Scout	19010	PFC
Lt Veh Dvr	19010	PFC
Carrier Dvr	19010	PFC
Scout Dvr	19010	PFC
Sheridan Crewman	19D10	PFC
(Loader, Driver, Gunner)		
Scout	19010	SP4
CFV Dvr	19010	SP4
Carrier Dvr	19010	SP4
Scout Dvr	19010	SP4
Sheridan Crewman	19010	SP4
Liaison Asst	19010	SP4
Gunner (Sheridan)	19010	SP4
CFV Gunner/Asse Sqd Ldr	19020	SGT
Asst Sqd Ldr	19020	SGT
ITV Gunner	19020	SGT
Section Ldr	19020	SGT
TOW Gunner	19D2O	SGT
Gunner/Asst TC	19020	SGT
Tank Cdr (Sheridan)	19020	SGT
Ammo Sgt	19D2O	SGT
OPNS Asst	19D2O	SGT
Sec/Sqd Ldr	19030	SSG
Sqd Ldr	19030	SSG
Tank Cdr (Sheridan)	19030	SSG
Tank Cdr	19030	SSG
Veh Cdr	19D3O	SSG
Tank Cdr (Sheridan)	19D4O	SFC
Asst Opns Sgt	19040	SFC
Trng Mgt	19040	SFC
Plt Sgt	19040	PSG

- 2. MOS/Civilian Designation and Description.
 - a. MOS: 19D Cavalry Scout

CMF: 19 - Armor

- b. Additional Skill Identifiers
 - C2 Dragon Gunnery
 - D3 Bradley Fighting Vehicle System (BFVS)
 - E9 M901 (ITV) Gunner/Crew Training
 - J3 Bradley Fighting Veh Master Gunner
 - P5 Master Fitness Trainer
 - R8 Tank Oper/Organ Maint (M551 Sheridan)
 - 4A Reclassification Training
- c. Security Clearance: None
- d. Job Description/Major Duties at Different Skill Levels:
 - (1) MOSC 19D10

Combat Duties

Protects self, weapons, and equipment from chemical and other contaminants.

Applies principles of escape and evasion.

Identifies, crates, loads, transports, stores, and maintains ammunition.

Fires individual and crew served weapons.

Performs duties as crewmember on Armored Reconnaissance
Airborne Assault Vehicle (ARAAV) M551 and scout vehicles.

Unit Defense

Assists in camouflage, cover and concealment of equipment and positions.

Assists in laying and removing mines and emplacing demolitions.

Assists with construction of light field fortifications.

Assists in firing of crew served weapons.

Maintenance

Performs operator maintenance on scout vehicles, Sheridan ARAAV (M551) crew served weapons, and communications equipment.

Recovery Operations

Assists in recovery operations for light wheeled and tracked vehicles.

Vehicle Operation

Operates wheeled and tracked scout vehicles and operates communications equipment.
Uses and responds to visual signals.
Operates M551 Sheridan ARAAV.
Uses radio-telephone procedures.
Operates other tracked and wheeled vehicles in armor units as designated (wheels, carriers).

Land Navigation

Locates points on map, distinguishes topographic features, and uses compass.
Uses maps, map symbols and overlays.
Navigates on ground from point to point.

Combat Reconnaissance

Serves as member of observation and listening post.
Gathers and reports information on terrain features, and enemy strength, disposition, and equipment.
Conducts route, fording, and bridge reconnaissance.
Identifies targets.
Requests and adjusts indirect and aerial fire.
Performs foot patrols.

(2) MOSC 19D20

Supervisory

Supervises scout vehicle crew in performance of duties shown in preceding level of skill.

Supervises operator maintenance of scout vehicles, Sheridan (M551), individual and crew served weapons.

Selects, organizes and supervises operation of observation and listening posts.

Supervises scout vehicle recovery operations.

Trains scout vehicle crew.

Supervises request, receipt, storage, and issue of ammunition. Supervises subordinate ARAAV (M551) crewmembers in the execution of their duties.

Combat Duties

Leads scout vehicle crew and assists in leading scout squad. Serves as gunner on the CFV, ITV, TOW jeep and Sheridan M551. Performs combat duties as shown in preceding skill level.

Administration

Prepares, files, and distributes maps and overlays.
Reproduces, distributes and files operations, intelligence, administrative and unit training documents.

(3) MOSC 19D30

Supervisory

Directs tactical deployment of element in combat.

Supervises maintenance of assigned vehicles and equipment.

Supervises scout sections or squads in the performance of combat duties shown in preceding skill levels.

Supervises scout crews and Sheridan (M551) crews in the performance of combat duties shown in preceding skill levels.

Tactics

Collects, reports, and evaluates accuracy, scope and usefulness of intelligence information.

Coordinates with adjacent and supporting elements.

Evaluates routes, assembly area, and positioning for mounted combat operations.

(4) MOSC 19D40

Supervisory

Assists in planning, organizing, directing, supervising, training, coordinating and reporting activities of the scout or armored cavalry platoon and staff sections. Directs distribution of fire. Supervises platoon maintenance activities. Collects, evaluates, and assists in interpretation and dissemination of combat information. Serves as unit master gunner. Serves as Training Management NCO in TOE and TDA Units.

- e. Related Civilian Occupation: There are no related DOT classifications for MOS 19D.
- 3. Anthropometric Data (5th to 95th Percentile Male)

- a. Combat carrying capacity: Must be able to walk or march with load of 54 pounds for undetermined distance over various terrain.
- b. Human engineering design (anthropometric) data for U.S. Army Armor crewmen from "MIL HDBK-759 (Table XIA) dated 12 March 1975.
 - (1) Weight (pounds): 128 to 205
 - (2) Stature (inches): 64.3 to 73.0
 - (3) Shoulder Height, Standing (inches): 52.8 to 60.8
 - (4) Shoulder Height, Sitting (inches): 22.3 to 26.8
 - 5) Functional Arm Reach (inches): 29.6 to 36.1
 - (6) Chest Depth (inches): 8.2 to 11.0
 - (7) Chest Breadth (inches): 11.0 to 13.8
 - (8) Hip Breadth, Standing (inches): 12.0 to 14.7
 - (9) Shoulder Breadth (inches): 16.6 to 20.1
 - (10) Shoulder Circumference (inches): 41.4 to 50.3
 - (11) Chest Circumference (inches): 33.6 to 43.2
 - (12) Waist Circumference (inches): 27.8 to 40.0
 - (13) Hip Circumference (inches) 33.9 to 42.7
- c. Anthropometric data from "Anthropometry of United States Army Men and Women", Human Factors Vol 21 (4) was considered but not used.
- 4. Physical Qualifications:
 - a. PULHES Profile: 111121 (see AR 40-501)
 - b. MEPSCAT Rating: Very Heavy
 - c. Vision
 - (1) · Color: Normal color vision
 - (2) Correctable vision of 20/20 in one eye and 20/100 in other eye.

5. Aptitude

- a. AFQT
 - (1) Mental Category Distribution

Category	_84_	85	_86_	87	88	89
I	3%	4%	5%	5%	4%	4%
II	32%	33%	36%	38%	31%	31%
IIIA	23%	25%	24%	25%	24%	23%
IIIB	29%	28%	30%	26%	32%	32%
IV	13%	10%	5%	6%	9%	10%
AFQT AVG SCORE	55	56	59	61	56	56

(2) Quality Distribution (USAREC Goals)

Category	86	<u>87</u>	88	89	90
I-IIIA IIIB	65% 25%	65% 25%	65% 25%	65% 25%	65% 23%
ĪV	10%	10%	10%	10%	12%

- b. Prerequisite Area Aptitude Score: Combat Operations (CO)
 - (1) Components Include:
 - Arithmetic Reasoning

 - Auto & Shop Information Mechanical Comprehension
 - Coding Speed
 - (2) Entry Level Score: 90
 - (3) Aptitude Score Distribution: CO

	84	<u>85</u>	_86_	_87_	_88_	89
80-84	0%	0%	0%	0%	0%	0%
85-89	13%	4%	9%	0%	3%	4%
90-94	13%	14%	16%	10%	12%	12%
95-99	13%	13%	13%	9%	12%	12%
100-104	15%	14%	16%	11%	12%	12%
105-109	12%	14%	13%	13%	13%	13%
110 +	34%	41%	33%	57%	48%	47%
AA AVG SCORE	104	108	105	99	109	108

- c. Target Reading Grade Level: 10th Grade
- 6. Biographical Information
 - a. Civilian Education: High School Graduates

	84	<u>85</u>	_86_	_87_	_88_	_89_
HSG	87%	90%	84%	92%	86%	87%
GED	5%	3%	6%	5%	10%	11%
Non HSG	8%	7%	10%	3%	4%	2%

- b. Percentage with English as a Second Language: Data not available
- c. Gender Mix: No female soldiers.

- 7. Skills and Knowledge Trained:
 - a. Tasks trained during One Station Unit Training (OSUT).
 - (1) 19D10 OSUT (M3) Bradley/CFV Cavalry Scout.

General Military Subjects

Set up and strike a shelter half tent. Complete a 12-15 mile (20-24km) tactical foot march. React to an inspecting officer. Summon commander of relief. Challenge unknown person(s). Apprehend an intruder. Stand an informal guard mount. Identify, prepare and wear army issue uniforms. Prepare for working inspection. Prepare for an in-quarters inspection (stand by in duty uniform). Prepare for in ranks inspection. Prepare for in-quarters inspection (full field layout). Execute drill movements without arms. Execute drill movements with arms. Perform as a squad member during the conduct of platoon drill. Perform as a squad member during the conduct of company drill. Report to an officer indoors. Report to an officer outdoors. React to an approaching officer. React to an approaching NCO. Identify rank. React to passing colors. React to the playing of "The National Anthem" and "To the Colors". React to the playing of "The Army Song". React to the sounding of "Reveille". React to the sounding of "Retreat". React to officer entering a building.

Physical Readiness Training

Attain an appropriate level of physical fitness.

First Aid

Evaluate a casualty.

Perform cardiopulmonary resuscitation (CPR) on an adult using the one man method.

Clear an object from the throat of a conscious victim.

Put on a field or pressure dressing.

Put on a tourniquet.

Prevent shock.

Apply a dressing to an open head wound.

Apply a dressing to an open abdominal wound.

Apply a dressing to an open chest wound.

Give first aid for burns.

Splint a suspected fracture.

Recognize and give first aid for heat injuries.

Give first aid for frost bite.

Transport a casualty using a one-man carry.

Transport a casualty using a two-man carry or an improvised litter.

Administer a nerve agent antidote to self (self aid).

Administer first aid to a nerve agent casualty (buddy aid).

Nuclear, Biological, and Chemical Defense

Recognize and react to chemical or biological hazards.
Put on, wear and remove your M17 series protective mask with hood.
Prepare for nuclear attack.
Decontaminate your skin and personal equipment.
Maintain your M17 series protective mask with hood.
Replace filters in an M17 series protective mask.
Put on and wear MOPP gear.
Store the M17 series protective mask with hood.
Drink, use the latrine and observe sleeping soldier in MOPP 4.
Use M8 detector paper to identify a chemical agent.
React to nuclear hazard.
Exchange MOPP gear.
Prepare a vehicle for nuclear attack.
Maintain M25 protective mask.

Engineer

Install and fire/recover an M18Al Claymore mine. Install booby traps. Emplace/recover pyrotechnic early warning devices. Install/remove the MI4 blasting antipersonnel mine. Install/remove the M16Al mine. Install/remove the M19 plastic antitank mine. Install/remove the M15 antitank mine. Install/remove the M21 antitank mine. Locate mines by probing. Locate mines using the AN/PSS-11 mine detector. Construct a non-electric demolition firing system. Construct an electric firing system. Construct a detonating cord firing system. Install booby traps. Neutralize booby traps. Install dual firing systems. Install/remove US anti-handling devices on anti-ank mines.

Military Communications

Encode and decode messages using KTC 600 tactical operations code.

Use the KTC 1400 numerical cipher/authentication system.

Prepare radio set AN/PRC-77 or AN/PRC-25 for operation.

Install radio set AN/VRC-64.

Use an automated Communications Electronics Operations Instructions (CEOI).

Establish, enter or leave a radio net.

Send a radio message.

Perform Operator's Preventive Maintenance Checks and Services (PMCS) on a radio set AN/VRC-64 or AN/GRC-160 (AN/VRC-53 or AN/GRC-125).

Recognize Electronic Countermeasures (ECM) and Implement Electric Counter-Countermeasures (ECCM).

Communicate using visual signaling techniques (mounted).

Prepare/operate FM radio sets.

Operate intercommunication set AN/VIC-1 on a tracked vehicle.

Land Navigation

Determine the grid coordinates of a point on a military map using the Military Grid Reference System.

Identify terrain features on the map.

Measure distance on a map.

Determine a magnetic azimuth using a compass.

Orient a map to the ground by map-terrain association.

Determine a location on the ground by terrain association.

Determine directions using field expedient methods.

Navigate from one point on the ground to another point.

Orient a map using a compass.

Identify adjoining map sheets.

Determine azimuth using a protractor and compute back azimuths.

Convert azimuth (magnetic or grid).

US Weapons

Perform operator maintenance on an M16Al rifle, magazine, and ammunition.

Load, reduce a stoppage and clear an M16A1/A2 rifle.

Battlesight zero an M16A1/A2 rifle.

Engage targets with an M16A1/A2 rifle.

Zero an AN/PVS-4 to an M16Al rifle.

Mount and dismount the AN/PVS-4 on an M16Al rifle.

Place an AN/PVS-4 into operation.

Engage targets with an M16Al rifle using an AN/PVS-4.

Employ hand grenades.

Perform safety checks on hand grenades.

Engage enemy targets with hand grenades.

Load, reduce a stoppage and clear an M60 machine gun.

Fire an M60 machine gun.

Prepare an M72A2 law for firing; restore an M72A2 law to carrying configuration.

Apply immediate action to correct a malfunction on an M72A2 LAW.

Engage targets with an M72A2 LAW.

Load, unload and clear an M203 grenade launcher.

Engage targets with an M203 grenade launcher and apply immediate action to reduce a stoppage.

Install and fire/recover an MISAl claymore mine.

Perform operator maintenance on an M60 machine gun and ammunition.

Field zero an M60 machine gun.

Mount and dismount an An/PVS-4 to an M60 machine gun.

Zero an AN/PVS-4 to an M60 machine gun.

Engage a target with an M60 machine gun mounted with an AN/PVS-4 night sight.

Perform operator maintenance on an M203 grenade launcher and ammmunition.

Zero an M203 grenade launcher.

Perform operator maintenance on cal .50 M2 HB machine gun and ammunition.

Set headspace and timing on a cal .50 M2 HB machine gun.

Load, reduce a stoppage, unload and clear a caliber .50 M2 HB machine gun.

Perform misfire procedures on a 25mm automatic gun.

Engage targets with the 25mm automatic gun using the ISU in an M2/M3 Bradley.

Perform misfire procedures on the TOW on an M2/M3 Bradley.

Boresight a TOW Launcher on an M2/M3 Bradley.

Engage targets with the TOW on an M2/M3 Bradley.

Load/unload an M16A1/A2 rifle magazine.

Load/unload and clear an M240C machine gun on an M2/M3 Bradley.

Boresight an M240C machine gun on an M2/M3 Bradley.

Perform misfire procedures on the M240C machine gun on an M2/M3 Bradley.

Engage targets with an M24)C machine gun using the ISU in an M2/M3 Bradley.

Load/unload and clear 25mm automatic gun on an M2/M3 Bradley.

Boresight a 25mm automatic gun on an M2/M3 Bradley.

Zero the 25mm automatic gun and M240C machine gun to the ISU on the ISU on the M2/M3 Bradley.

Individual Tactical Training

Camouflage your defensive position.

Camouflage yourself and your individual equipment.

Move over through or around obstacles (except minefields).

React to flares.

React to indirect fire.

Construct individual fighting positions.

Emplace/recover pyrotechnic early warning devices.

Select temporary fighting positions.

Estimate range.

Call for/adjust indirect fire.

Use challenge and password.

Move under direct fire.

Report enemy information.

Practice noise, light, and litter discipline.

Clear a field of fire.

Intelligence

Visually identify threat aircraft.
Recognize and identify friendly and threat armored vehicles.
Collect/report information-SALUTE.
Prepare individual equipment for patrol.
Collect data for classification of a route.
Estimate range.

Vehicle Specific

Drive an M998-series vehicle.

Maintain operator's part of an equipment record folder. Perform operator's maintenance on optical equipment. Evade enemy antitank guided missiles (ATGM) Recover a mired tracked vehicle using similar vehicle and TOW Perform preventive maintenance checks and services on the hull of a Bradley M2/M3. Start/stop the engine on a M2/M3 Bradiey. Break/join track on an M2/M3 Bradley. Shut down the driver's station on an M2/M3 Bradley to include crew area. Drive an M2/M3 Bradley. Extinguish a fire on an M2/M3 Bradley. Perform emergency evacuation procedures on the M3 Bradley. Abandon and destroy an M3 Bradley. Drive an M2/M3 Bradley using night vision equipment. Operate an M2/M3 Bradley in water. Start an M2/M3 Bradley engine using auxiliary power. Load/unload 25mm ready boxes on an M2/M3 Bradley. Perform operator maintenance on a 25mm automatic qun on an M2/M3. Install/remove an M240C machine gun on an M2/M3 Bradley. Perform operator's maintenance on an M240/M240C machine gun. Load/unload and stow smoke grenades for the M257 smoke grenade launchers on an M2/M3 Bradley. Stow ammunition and equipment on an M3 Bradley. Maintain the air cleaner system on an M998-series vehicle. Maintain the battery system on an M998-series vehicle. Maintain the brake system on an M998-series vehicle. Maintain the cooling system on an M998-series vehicle. Maintain the engine on an M998-series vehicle. Maintain the fuel system on an M998-series vehicle. Maintain the steering system on an M998-series vehicle. Maintain the transmission system on an M998-series vehicle. Start an M998-series vehicle using auxiliary power.

OTHER TASKS AND SUBJECTS TAUGHT IN RESIDENT TRAINING

Role of the Army. Responsibilities of the soldier. Military justice. Code of conduct. Opposing forces orientation. Law of land warfare/SAEDA. Orientation. Personal affairs. Alcohol and drug abuse prevention control program. Equal opportunity and prevention of sexual harassment. Physical fitness training (total fitness). Detect targets. Engage targets in an NBC environment. Apply night fire techniques with the MIGAI rifle. Apply integrated act of automatic rifle shooting, using automatic firing positions. Perform preventive maintenance checks and services on the turret of an M2/M3 Bradley. Place an AN/PVS-5 (night vision goggles) into operation. Fire smoke grenades from the M257 grenade launcher on an M2/M3 Bradlev. Perform misfire procedures on an M257 smoke grenade launcher on in M2/M3 Bradley. Engage targets with the TOW on an M2/M3 Bradley. Prepare a range card for an M3 Bradley.

(2) 19D10 - OSUT (M113) M113 Cavalry Scout.

General Military Subjects

Establish a bivouac site. Complete a 12-15 mile (20-24 km) tactical foot march. React to an inspecting officer. Summon commander of relief. Challenge unknown persons (night). Apprehend an intruder. Recite the general orders. Explain information on an LES. Inspections. Identify chain of command. Execute drill movements without arms. Execute drill movements with arms. Report to an officer indoors. Report to an officer outdoors. React to an approaching officer. React to an approaching NCO. Identify rank. React to passing colors.

React to the playing of "The National Anthem" and "To the Colors". React to the playing of "The Army Song". React to the sounding of "Reveille". React to the sounding of "Retreat". React to officer entering a building. Tell military time.

Physical Readiness Training

Conditioning obstacle course.
Confidence obstacle course.
Attain an appropriate level of physical fitness.

First Aid

Evaluate a casualty. Perform mouth-to-mouth Resuscitation (CPR). Clear an object from the throat of a conscious victim. Put on a field or pressure dressing. Put on a tourniquet. Prevent shock. Apply a dressing to an open head wound. Apply a dressing to an open abdominal wound Apply a dressing to an open chest wound. Give first aid for burns. Splint a suspected fracture. Recognize and give first aid for heat injuries. Give first aid for frostbite. .. otect yourself against heat. Protect yourself against cold. Protect yourself against biting insects. Protect yourself from diarrhea and dysentery. Practice personal hygiene to maintain fitness. Transport a casualty using a one-man carry. Transport a casualty using a two-man carry or an improvised litter. Administer a nerve agent antidote to self (self aid). Administer first aid to a nerve agent casualty (buddy aid).

Nuclear, Biological, and Chemical Defense

Prepare for NBC attack.

Recognize and react to chemical or biological hazard.

Put on, wear, and remove your M17-series protective mask with hood.

Decontaminate your skin and personal equipment.

React to nuclear hazard.

Maintain your M17-series protective mask with hood.

Replace filters in your M17-series protective mask.

Put on and wear MOPP gear.

Exchange MOPP gear.

Store the M17-Series protective mask with hood in its carrier.

Drink, use the latrine, and observe sleeping soldier in MOPP 4. Prepare a vehicle for nuclear attack. Use M9 detector paper to detect chemical agent. Maintain M25 protective mask.

Engineer

Install/remove the MI6Al antipersonnel mine.
Install/remove the MI9 plastic antipersonnel mine.
Emplace/recover pyrotechnic early warning devices.
Install/remove the MI4 blasting antipersonnel mine.
Install/remove the MI5 antitank mine.
Install/remove the M21 antitank mine.
Locate mines by probing.
Locate mines using the AN/PSS-11 mine detector.
Construct a nonelectric initiating/detonating assembly.
Construct an electric initiating/detonating assembly Install booby traps.
Neutralize booby traps.
Install dual firing systems.
Install/remove US anti-handling devices on antitank mines.
Install and fire/recover an MI8Al Claymore mine.

Military Communications

Prepare radio set AN/PRC-77 or AN/PRC-25 for operation. Install radio set AN/VRC-64. Use an automated Communications Electronics Operation Instructions (CEOI). Establish, enter or leave a radio net. Send a radio message. Perform Operator's Preventive Maintenance Checks and Services (PMCS) on a radio set AN/VRC-64 or AN/GRC-160 (AN/VRC-53 or AN/GRC-125). Recognize Electronic Countermeasures (ECM) and Implement Electric Counter-countermeasures (ECCM). Communicate using visual signalling techniques (mounted). Prepare/operate FM radio sets. Operate intercommunication set AN/VIC-1 on a tracked vehicle. Encode and decode messages using KTC 600 tactical operations code. Use the KTC 1400 numerical cipher/authentication system.

Land Navigation

Determine the grid coordinates of a point on a military map using the military grid reference system.

Identify terrain features on a map.

Measure distance on a map.

Determine a magnetic azimuth using a compass.

Orient a map to the ground by map-terrain association.

Determine a location on the ground by terrain association.

Determine direction using field expedient methods.

Navigate form one point on the ground to another point.

Orient a map using a compass.

Identify adjoining map sheets.

Determine azimuth using a protractor and compute back azimuth.

Convert azimuth (magnetic or grid).

US Weapons

Perform operator maintenance on an M16Al rifle, magazine, and ammunition.

Load, reduce a stoppage, and clear an M16Al rifle.

Battlesight zero an MI6AI/A2 rifle.

Engage targets with an M16A1/A2 rifle.

Zero an AN/PVS-4 to an M16A1 rifle.

Mount and dismount the AN/PVS-4 on an M16A1 rifle.

Place an AN/PVS-4 into operation.

Engage targets with an M16Al rifle using an AN/PVS-4.

Identify and employ hand grenades.

Perform safety checks on hand grenades.

Engage enemy targets with hand grenades.

Load, reduce a stoppage, and clear an M60 machine gun.

Fire an M60 machine gun.

Prepare an M72A2 LAW for firing; restore an M72A2 LAW to carrying configuration.

Apply immediate action to correct a malfunction on an M72A2 LAW. Engage targets with an M72A2 LAW.

Load, unload and clear an M203 grenade launcher.

Engage targets with M203 grenade launcher and apply immediate action to reduce a stoppage.

Perform operator maintenance on an M60 machine gun and ammunition. Field zero an M60 machine gun.

Mount and dismount an AN/PVS-4 to an M60 machine gun.

Zero an AN/PVS-4 to an M60 machine gun.

Engage a target with an M60 machine gun mounted with an AN/PVS-4 night sight.

Perform operator maintenance on an M203 grenade launcher and ammunition.

Zero an M203 grenade launcher.

Perform operator maintenance on caliber .50 M2 HB machine gun and ammunition.

Set headspace and timing on a caliber .50 M2 HB machine gun. Load, reduce a stoppage, unload and clear a caliber .50 machine gun.

Engage targets with caliber .50 M2 HB machine gun on an M113/M113A1 (low-profile cupola).

Prepare a DRAGON for firing.

Conduct a pre-operational inspection and perform operational maintenance on a DRAGON tracker and round.

Determine if a target is engageable with a DRAGON.

Demonstrate correct DRAGON firing positions.

Mount and dismount a Cal .50 HB M2 machine gun on an M113Al.
Perform immediate action procedures for a DRAGON misfire.
Prepare an anti-armor range card (TOW, DRAGON, 106mm, or 90mm RCLR).
Assemble a TOW 2 launcher.
Perform operator maintenance on a TOW 2 launcher.
Conduct a system self-test and pre-operation inspection of a TOW 2 launcher and encased missile.
Determine if a target can be engaged by TOP.
Load, arm, and unload an encased TOW missile.

Individual Tactical Training

Engage a target with a TOW 2.

Perform immediate action for TOW 2 misfire.

Camouflage your defense position.
Camouflage yourself and your individual equipment.
Move over, through, or around obstacles (except minefields).
React to flares.
React to indirect fire.
Construct individual fighting positions.
Select temporary fighting positions.
Report enemy information.
Call for/adjust indirect fire.
Use challenge and password.
Move under direct fire.

<u>Intelligence</u>

Visually identify threat aircraft.
Recognize and identify friendly and threat armored vehicles.
Prepare individual equipment for patrol.
Collect data for classification of a route.
Estimate range.

Vehicle Specific

Maintain the battery system on an M998-series vehicle.

Maintain the brake system on an M998-series vehicle.

Maintain the cooling system on an M998-series vehicle.

Maintain the engine on an M998-series vehicle.

Maintain the fuel system on an M998-series vehicle.

Maintain the steering system on an M998-series vehicle.

Maintain the transmission system on M998-series vehicle.

Start an M998-series vehicle using auxiliary power.

Drive an M998-series vehicle.

Maintain operator's part of an equipment record folder.

Perform operator's maintenance on a track vehicle.

Operate a tracked vehicle in water.

Drive a track vehicle (M113A1 or M901).

Conduct a system self-test and pre-operation inspection of a TOW 2 launcher and encased missile.

Evade Enemy Antitank Guided Missiles (ATGM).

Recover a mired tracked vehicle using similar vehicle(s) and tow cables.

Extinguish a fire on a track vehicle (M113A1 or M901 ITV).

Drive a tracked vehicle with night vision devices, infrared equipment, and blackout drive.

Operate M243 smoke grenade launcher on an ITV (M901).

Mount, stow and dismount on M60 machine gun and an ITV (M901).

Erect launcher from stow position.

Stow the launcher on an ITV (M901).

Prepare an ITV (M901) dual launcher for loading.

Perform preventive maintenance on optical equipment.

Conduct a system check-out procedure on an ITV TOW (M901).

Operate light controls and M19 infrared periscope on a tracked vehicle.

Perform troubleshooting procedures on an M998-series vehicle (HUMMV).

Engage a target with an ITV TOW 2 (M901A1) dual launcher.

Perform immediate action for an ITV (M901) dual launcher misfire.

Operate the ITV (M901) dual launcher using emergency action procedures.

Load a dual launcher with encased missile(s) return to stow position.

Reload the ITY (M901) dual launcher.

OTHER TASKS AND SUBJECTS TAUGHT IN RESIDENT TRAINING

Hand-to-hand combat.

Defensive driving course.

Soldier responsibilities and U.S. Army heritage and traditions.

Military justice and discipline.

Code of conduct.

Threat orientation.

Law of land warfare/SAEDA.

Personal affairs.

Alcohol and drug abuse prevention control program.

Equal opportunity.

Physical fitness training (healthy life styles & habits).

Identify and wear military uniforms.

Load and unload an MIGAl rifle magazine.

Rifle Bayonet/Pugil Fighting/Bayonet Assault Course.

Perform duties as a road guide.

Clear fields of fire.

Practice noise, light, and litter discipline.

Advanced vehicle identification.

Place an AN/PVS-5 (night vision goggles) into operation.

b. Tasks trained during 19D Cavalry Noncommissioned Officer Advanced Course:

Plan and Supervise Positioning M-8 Alarm. Collect and Report Total Radiation Dose. Conduct Demolition Missions. Call For/Adjust Indirect Fire. Plan a Tactical Roadmarch. Issue a Platoon Fragmentary Order. Issue an Oral Operation Order (OPORD). Coordinate a Passage of Lines. Prepare a Situation Report (SITREP). Conduct a Tactical Roadmarch. Build a Quick Smoke Screen. Plan Platoon Rearm and Resupply Conduct Platoon Rearm and Supply. Plan Reconnaissance of an Urban Area. Supervise Placement of Observation Posts. Conduct a Relief in Place at Platoon Level. Conduct a Screening Mission. Plan a Screening Mission. Conduct Actions on Contact. Conduct a Hasty River Crossing. Conduct Displacement at Platoon Level Direct Operations of Live Fire Ranges. Plan Range Operations. Conduct a Mounted Patrol. Plan a Mounted Patrol. Conduct Armor Tactical Navigation. Coordinate with Adjacent Units. Plan a Hasty River Crossing. Conduct a Platoon Level During/After Action Review (DAR/AAR) (audit). Conduct Quartering Party Activities. Conduct Troop Leading Procedures. Direct Emplacement and Activation of PEWs. Plan a Dismounted Patrol. Conduct a Dismounted Patrol. Supervise Platoon Maintenance. Conduct Route Reconnaissance at Platoon Level. Conduct Area Reconnaissance at Platoon Level. Conduct Zone Reconnaissance at Platoon Level. Plan the Reconnaissance of an Obstacle. Conduct Reconnaissance of an Urban Area. Conduct Reconnaissance of an Obstacle. Control Tactical Movement of a Scout Platoon. Plan Reconnaissance Mission. Prepare a Platoon Fire Plan. Conduct Occupation of an Assembly Area. Direct Consolidation/Reorganization on the Objective. Supervise COFT Programs.

Inspect Logbooks and Maintenance Records.
Plan NBC Operations.
Conduct NBC Operations.
Supervise Personnel Handling Ammunition.
Plan/Establish Observation Posts (OP) for Tactical Operations.
Prepare an Oral Operation Order.
Evaluate a Bridge/Vehicle.
Supervise Vehicle Recovery Operations.